



# EUTELSAT S.A.

TYPE APPROVAL

STANDARD ANTENNAS

STANDARD VSATS

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January 2005



Status: 14 January 2005

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A001	24-04-95	L	Vislink Communications Ltd (previously Continental Microwave Ltd) UK	DST150 (ex. SNG140T)	Transportable 4 p. 1.5 m offset front-fed Diamond	1.5 meter SNG maximum 55.7 dBW / 40 kHz at > 2.5 Msym/s maximum 77.2 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A004	20-12-01 Rev.3	L	ERA Technology Ltd UK	15 Ku(S)	Transportable 1 or 4 p. 1.5 m offset front-fed Diamond	1.5 meter SNG maximum 60.0 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 54.0dBW / 40 kHz at > 2.5 Msym/s maximum 75.5 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A005	10-03-97	L	ERA Technology Ltd UK	10 Ku	Transportable 1 p. 1 m offset front-fed Diamond	1 meter SNG maximum 56.8dBW / 40 kHz at ≤ 2.5 Msym/s maximum 50.8 dBW / 40 kHz at > 2.5 Msym/s maximum 72.3 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A006	10-12-97	L	Vertex RSI USA	2.4 DMK	Truckmount 1 p. 2.4 m dual offset Gregorian	2.4 meter truckmount SNG maximum 61.5 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 55.5 dBW / 40 kHz at > 2.5 Msym/s maximum 77.0 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A011	20-10-99	L, M	Vislink Communications Ltd (previously Advent Communications Ltd) UK	Newswift 120 KMA	Transportable 1 p. 1.2 m offset front-fed	1.2 meter vehicle or flyaway maximum 53.4 dBW / 40 kHz at ≤ 2.5 Msym/s maximum 47.4 dBW / 40 kHz at > 2.5 Msym/s maximum 68.9 dBW for a standard 5.632 Msym/s digital TV carrier

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-400 issue 9 - rev 0 §6.1 and EESS-502 issue 8 - rev 0 §6.1 refers).



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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A012	20-10-99	L, M	Vislink Communications Ltd (previously Advent Communications Ltd) UK	Newswift 150 KMA	Transportable 1 p. 1.5 m offset front-fed	1.5 meter vehicle or flyaway maximum 57.3 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 51.3 dBW / 40 kHz at $> 2.5$ Msym/s maximum 72.8 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A016	12-01-01	L, M	Vertex RSI USA	1.5 m SMK-LT	Transportable 1 p. 1.5 m offset front-fed	1.5 meter truckmount SNG maximum 55.7 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 49.7 dBW / 40 kHz at $> 2.5$ Msym/s maximum 71.2 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A017	22-12-00	L	ERA Technology Ltd UK	12 Ku Diamond	Transportable 1 p. 1.2 m offset front-fed Diamond	1.2 meter SNG maximum 59.0 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 53.0 dBW / 40 kHz at $> 2.5$ Msym/s maximum 74.5 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A018	21-02-03 Rev.1	L	Page Europa Italy	825-2020-001	Transportable foldable 4.8 m Cassegrain	4.8 meter truckmount maximum 65.4 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 59.4 dBW / 40 kHz at $> 2.5$ Msym/s maximum 80.9 dBW for a standard 5.632 Msym/s digital TV carrier

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EA-A022	24-10-03	L	ERA Technology Ltd UK	10KuS	Transportable 4 p. 1.0 m offset front-fed Diamond	1.0 meter SNG maximum 56.7 dBW / 40kHz at $\leq 2.5$ Msym/s maximum 50.7 dBW / 40kHz at $> 2.5$ Msym/s maximum 72.2 dBW for a standard 5.632 Msym/s digital TV carrier

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# Eutelsat Type Approval Ku-Band Standard Antennas, Fixed General Purpose

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A002	14-03-00 Rev.1	L, M	Andrew Corporation USA	ES37(MPJ)K-124W ES37-124WS	Fixed 2 p. 3.7 m Gregorian	3.7 meter general purpose fixed station maximum 63.0 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 57.0 dBW / 40 kHz at $> 2.5$ Msym/s maximum 78.5 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A003	09-01-96	L, M	Andrew Ltd UK	ESA24K-1	Fixed 1 p. 2.4 m symmetric front-fed	2.4 meter fixed digital station maximum 58.5 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 52.5 dBW / 40 kHz at $> 2.5$ Msym/s maximum 74.0 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A007	10-12-97	L, M	Vertex RSI USA	2.4 DPK	Fixed 1 p. 2.4 m dual offset Gregorian	2.4 meter fixed general purpose station maximum 60.6 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 54.6 dBW / 40 kHz at $> 2.5$ Msym/s maximum 76.1 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A008 Production discontinued	19-01-98	L, M	Vertex RSI USA	2.4 DPVK	Fixed 2 p. 2.4 m dual offset Gregorian	2.4 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 52.7 dBW / 40 kHz at $> 2.5$ Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A009 Production discontinued see EA-A026	19-05-00 Rev.1	L, M	Channel Master International GmbH Germany	62-18452-01	Fixed single p. 1.8 m dual offset Gregorian	1.8 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 52.7 dBW / 40 kHz at $> 2.5$ Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A010 Production discontinued	19-1-99	L, M	Channel Master International GmbH Germany	62-24452-01	Fixed 2 p. 2.4 m dual offset Gregorian	2.4 meter fixed general purpose station maximum 63.6 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 57.6 dBW / 40 kHz at $> 2.5$ Msym/s maximum 79.1 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A013	27-01-00	L, M	Precision Antennas UK	E0T18KUE	Fixed single piece 1.8 m offset	1.8 meter fixed general purpose station maximum 56.4 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 50.4 dBW / 40 kHz at $> 2.5$ Msym/s maximum 71.9 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A014 Production discontinued see EA-A027	15-09-00	L, M	Channel Master International GmbH Germany	62-24452-02	Fixed 2 p. 2.4 m dual offset Gregorian	2.4 meter fixed general purpose station maximum 61.2 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 55.2 dBW / 40 kHz at $> 2.5$ Msym/s maximum 76.7 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A015	12-01-01	L, M	Vertex RSI USA	3.8 meter DPK	Fixed 12 p. 3.8 m dual offset Gregorian	3.8 meter fixed general purpose station maximum 60.5 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 54.5 dBW / 40 kHz at $> 2.5$ Msym/s maximum 76.0 dBW for standard fm-tv
EA-A023	10-11-03	L	Vertex RSI USA	4.8 meter KPK	Fixed 16 p. 4.8 m dual optics Cassegrain	4.8 meter fixed general purpose station maximum 63.0 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 57.0 dBW / 40 kHz at $> 2.5$ Msym/s maximum 78.5 dBW for standard 5.632 Msym/s digital TV carrier

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-400 issue 9 - rev 0 §6.1 and EESS-502 issue 8 - rev 0 §6.1 refers).



Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A026	07-01-05	L, M	Andrew Corporation (previously Channel Master LLC) USA	62-18452-02	Fixed single p. 1.8 m dual offset Gregorian	1.8 meter fixed general purpose station maximum 58.7 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 52.7 dBW / 40 kHz at $> 2.5$ Msym/s maximum 74.2 dBW for a standard 5.632 Msym/s digital TV carrier
EA-A027	07-01-05	L, M	Andrew Corporation (previously Channel Master LLC) USA	62-24452-02	Fixed 2 p. 2.4 m dual offset Gregorian	2.4 meter fixed general purpose station maximum 61.2 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 55.2 dBW / 40 kHz at $> 2.5$ Msym/s maximum 76.7 dBW for a standard 5.632 Msym/s digital TV carrier

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-400 issue 9 - rev 0 §6.1 and EESS-502 issue 8 - rev 0 §6.1 refers).



## Eutelsat Type Approval C-Band Standard Antennas, Fixed General Purpose

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A024	10-11-03	L	Vertex RSI USA	4.8 meter KPC	Fixed 16 p. 4.8 m dual optics Cassegrain	4.8 meter fixed general purpose station maximum 58.8 dBW / 40 kHz

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-400 issue 9 - rev 0 §6.1 and EESS-502 issue 8 - rev 0 §6.1 refers).





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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A019	13-01-04 Rev.1	M	Maec-Visiosat France	75 Rx / Tx ANT 0141051, 0141052 or 0141053	Single piece 0.75 m offset	0.75 meter fixed broadband interactive antenna maximum 39.0 dBW / 4 kHz
EA-A020	02-06-03	M	Patriot USA	TXEUT-120KUDO	Fixed single piece 1.2 m dual optics offset Gregorian	1.2 m fixed for VSAT applications maximum 51.3 dBW / 40 kHz at $\leq 2.5$ Msym/s maximum 45.3 dBW / 40 kHz at $> 2.5$ Msym/s
EA-A025	13-01-04	M	Maec-Visiosat France	90 DR 0141020 0141027 0141011	Visiosat 0.9 m dual offset Gregorian	0.9 m fixed broadband interactive antenna maximum 37.0 dBW / 4 kHz

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-400 issue 9 - rev 0 §6.1 and EESS-502 issue 8 - rev 0 §6.1 refers).



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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A021	Pending	L	Patriot USA	TXEUT-90KA	Fixed single piece 0.9 m offset front fed	0.9 m fixed for Skyplex applications 37.1 dBW / 40 kHz for digital carriers transmitted to HB6 Skyplex transponders

\*Note: Authorised EIRP levels are given for locations at the satellite receive G/T contours  $\geq 10$  dB/K (EESS-400 issue 9 - rev 0 §6.1 refers).



# Eutelsat Type Approval

# VSAT's £ 1 meter Æ

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam	G/T (typ)	Authorised EIRP*
EA-V010	29-04-96	Gilat Satellite Networks Ltd Israel	GRF-090/02	Fibo 0.9 m dual offset Gregorian	Gilat LN001210 0.5 or 1.0 Watt	0.9 m	19.5 dB/K	37 dBW / 4 kHz
EA-V013	06-11-96	TSAT AS Norway	OA1600B	Fibo 0.9 m dual offset Gregorian	Teamcom (Normarc) RFA 1188 0.1, 0.5 or 2 Watt	0.9 m	19.6 dB/K	40 dBW / 4 kHz
EA-V015 No longer valid**	17-12-96	GEC Spacenet USA	Skystar Advantage 0.98 A	Prodelin 1981 0.98 m offset front-fed	Gilat AN3422-01 0.5 Watt	1 m	18.3 dB/K	40 dBW / 4 kHz
EA-V021	22-10-99 Rev.1	NEC Corporation Japan	NEXTAR 0.9 m	Fibo 0.9 m dual offset Gregorian	NEC E5847 1 or 2 Watt	0.9 m	19.0 dB/K	37 dBW / 4 kHz
EA-V022 No longer valid**	14-11-97	Hughes Network Systems UK	PESX000 0.98 m	Prodelin 1981 0.98 m offset front-fed	MTI, 2 Watt	1 m	17.6 dB/K	40 dBW / 4 kHz
EA-V026 No longer valid**	22-10-98	Scientific Atlanta USA	SkyRelay 3000-098	Prodelin 1981 0.98 m offset front-fed	SA 6605, 0.8 Watt LNB: Norsat or Nichimen	1 m	17.8 dB/K	40 dBW / 4 kHz

Notes: \* Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).

\*\* Due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination requirement of 30 dB @ -1 dB contour.



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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V031 Production discontinued see EA-V050	18-12-01 Rev.2	Channel Master LLC USA	62-96052-01 62-96056-01 0.96 m	Channel Master 1 p. 0.96 m offset front-fed long focal length	Gilat RF 0.5 or 1 Watt LNB: Norsat or NJRC	0.96 m	19.4 dB/K	40 dBW / 4 kHz
EA-V033 No longer valid**	31-05-00	NEC Corporation Japan	NEXTAR 0.98 m	Prodelin 1981 0.98 m offset front-fed	NEC G3606 1 or 2 Watt	0.98 m	18.3 dB/K	40 dBW / 4 kHz
EA-V034	31-05-00	Wireless Innovation Ltd (previously Chronos Technology Ltd) UK	CTL3096	Andrew 62-96056-01 1 p. 0.96 m offset front-fed long focal length	TSAT AS 0.5 Watt	0.96 m	19.7 dB/K	40 dBW / 4 kHz
EA-V038	19-12-01	Maec-Visiosat France	Visiosat 90 DR	0.90 m dual offset Gregorian	TSAT AS 0.5 Watt	0.9 m	18.1 dB/K	40 dBW / 4 kHz
EA-V040	13-01-04	Maec-Visiosat France	75 Rx/Tx ANT 0141054	Visiosat 0.75 m offset	Skyware Radio 1216 L or 1214 S 2 Watt	0.75 m	17.0 dB/K	36 dBW / 4 kHz
EA-V041	13-01-04	Maec-Visiosat France	90 DR 0141044	Visiosat 0.9 m dual offset Gregorian	Skyware Radio 1216 L or 1214 S or 1216 EL or 1214 ES 2 Watt	0.9 m	18.2 dB/K	37 dBW / 4kHz

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EA-V042	05-07-04 Rev.1	Swe-Dish Satellite Systems AB Sweden	IPT SUITCASE	Swe-Dish 0.9 m dual offset Gregorian	Paradise HPAK-2025B-10 25 Watt	0.9 m x 0.66 m	19.3 dB/K	34.5 dBW / 4kHz
EA-V043	26-06-04	Maec-Visiosat France	90 EMIT 0141095	Visiosat 0.9 m offset front-fed	Invacom Radio TUL201 or TUL204 2 Watt (EODU-004)	0.9 m	18.4 dB/K	39 dBW / 4kHz
EA-V044	26-06-04	Maec-Visiosat France	90 EMIT 0141096	Visiosat 0.9 m offset front-fed	Skyware transceiver 1214S, 1216L or 1226L 2 Watt (EODU-003)	0.9 m	18.4 dB/K	39 dBW / 4kHz
EA-V045	04-10-04	Raven Manufacturing Ltd UK	G90 Tx/Rx	Raven Manufacturing Ltd 0.89 x 0.80 m offset front-fed	Invacom Radio TUL201 or TUL204 2 Watt (EODU-004)	0.89 x 0.80 m	22.7 dB/K	38.2 dBW / 4kHz
EA-V046	27-10-04	General Dynamics C4 Systems USA	1985	Prodelin 0.98 m offset front-fed	Gilat ODU 1 Watt (EODU-001 - 002)	0.98m	17.2 dB/K	40 dBW / 4 kHz

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EA-V050	07-01-05	Andrew Corporation (previously Channel Master LLC) USA	62-96052-11 62-96056-01	Andrew 1 p. 0.96 m Class II / III offset front-fed long focal length	Gilat AN3422-01 0.5 or 1 Watt LNB: Norsat or NJRC	0.96 m	19.4 dB/K	40 dBW / 4 kHz

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# Eutelsat Type Approval

**VSAT's = 1.2 meter  $\bar{A}$**

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V005	19-10-95	NEC Corporation Japan	NEXTAR 1.2 m	NEC E8639 1 p. 1.2 m offset front -fed	NEC E5847/D6537 1 or 2 Watt	1.2 m	19.4 dB/K	37 dBW / 4 kHz
EA-V006 Production discontinued	29-03-96	Channel Master International GmbH Germany	62-12161-04	Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem	Comstream DT7000 2 Watt	1.2 m	20.5 dB/K	53 dBW / 40 kHz for $TSR \leq 2.5$ Msym/s
EA-V008 Production discontinued	22-04-96	Channel Master International GmbH Germany	62-12161-11 62-12161-12	Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem	Fairchild RFT 2000 2 or 4 Watt	1.2 m	20.5 dB/K	53 dBW / 40 kHz for $TSR \leq 2.5$ Msym/s
EA-V011	29-04-96	Gilat Satellite Networks Ltd Israel	GRF-120/02	Fibo 1.2 m dual offset Gregorian	Gilat LN001210 0.5 or 1.0 Watt	1.2 m	22.0 dB/K	37 dBW / 4 kHz
EA-V014	06-11-96	TSAT AS Norway	OA1600C	Fibo 1.2 m dual offset Gregorian	Teamcom (Normarc) RFA 1188 0.1, 0.5 or 2 Watt	1.2 m	22.1 dB/K	40 dBW / 4 kHz
EA-V016 No longer valid**	17-12-96	GEC Spacenet USA	Skystar Advantage 1.2 A	Prodelin 1134 1.2 m offset front-fed	Gilat AN3422-01 0.5 Watt	1.2 m	20.5 dB/K	40 dBW / 4 kHz

Notes: \* Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V017 Production discontinued	20-12-96	Channel Master International GmbH Germany	62-12161-25 62-12161-26 62-12161-27 62-12161-28	Channel Master 1 p. 1.2 m offset front-fed ERA feedsystem	SSE ASAT-1214 2, 4, 8 or 16 Watt	1.2 m	20.5 dB/K	53 dBW / 40 kHz for TSR $\leq$ 2.5 Msym/s
EA-V020 No longer valid**	02-04-97	L.TEQ UK	ALPHA/12POS	Prodelin 1134 1.2 m offset front-fed	EF Data KST-2000 or KST-12000 (2/4 respectively 8/16 Watt)	1.2 m	19.7 dB/K	40 dBW / 4 kHz
EA-V023 No longer valid**	14-11-97	Hughes Network Systems UK	PESX000 1.2 m	Prodelin 1134 1.2 m offset front-fed	MTI, 2 Watt	1.2 m	19.3 dB/K	40 dBW / 4 kHz
EA-V025 Production discontinued see EA-V048	18-12-01 Rev.3	Channel Master LLC USA	62-12356-51 62-12356-52	Channel Master 1 p. 1.2 m offset front-fed long focal length	Gilat AN3422-01 0.5 or 1.0 Watt	1.2 m	21.0 dB/K	40 dBW / 4 kHz
EA-V027 No longer valid**	22-10-98	Scientific Atlanta USA	SkyRelay 3000-120	Prodelin 1134 1.2 m offset front-fed	SA 6605, 0.8 Watt LNB: Norsat or Nichimen	1.2 m	19.6 dB/K	40 dBW / 4 kHz

Notes: \* Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).

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# Eutelsat Type Approval

# VSAT's = 1.2 meter $\Xi$ (cont'd)

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V030 Production discontinued see EA-V049	24-01-00 Rev.1	Channel Master International GmbH Germany	62-12456-53 62-12456-54	Channel Master 1 p. 1.2 m offset front-fed long focal length	SSE K-STAR 2 or 4 Watt	1.2 m	21.0 dB/K	40 dBW / 4 kHz
EA-V037	19-12-01	Sea Tel UKI	4996T 7/8 w	Sea Tel 1.2 m dual offset Gregorian	CODAN S/N 5900 W 2, 4, 8, 16 W	1.2 m	20 dB/K	40 dBW / 4 kHz
EA-V039	09-12-03	Gilat Satellite Networks Ltd Israel	Skystar 1.2 m	Prodelin 1132	Gilat 1 Watt Type Approved	1.2 m	20.5 dB/K	40 dBW / 4 kHz
EA-V047	27-10-04	General Dynamics C4 Systems USA	1135	Prodelin 1.2 m offset front-fed	Gilat ODU 1 Watt (EODU-001 - 002)	1.2 m	19.0 dB/K	40 dBW / 4 kHz
EA-V048	07-01-05	Andrew Corporation (previously Channel Master LLC) USA	62-12356-11	Andrew 1 p. 1.2 m Class I offset front-fed long focal length	Gilat AN3422-01 0.5 or 1 Watt	1.2 m	21.0 dB/K	40 dBW / 4 kHz
EA-V049	07-01-05	Andrew Corporation (previously Channel Master LLC) USA	62-12456-01	Andrew 1 p. 1.2 m Class III offset front-fed long focal length	Gilat AN3422-01 0.5 or 1 Watt	1.2 m	21.0 dB/K	40 dBW / 4 kHz

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## Eutelsat Type Approval

## VSAT's = 1.2 meter $\mathcal{A}$ (cont'd)

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V051	07-01-05	Andrew Corporation (previously Channel Master LLC) USA	62-12362-01	Andrew 1 p. 1.2 m Class II offset front-fed long focal length	Gilat AN3422-01 0.5 or 1 Watt	1.2 m	21.0 dB/K	40 dBW / 4 kHz

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# Eutelsat Type Approval

**VSAT's = 1.8 meter  $\bar{A}$**

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V003 Production discontinued	31-08-95	S <sup>+</sup> AS Limited UK	SF18.ST	Precision Antennas 1 p. 1.8 m front fed, J hook	SSE ASAT-1214 S/N or Kstar 2 to 25 Watt Single or redundant	1.8 m	22.3 dB/K	37 dBW / 4 kHz
EA-V004 Production discontinued	01-09-95	S <sup>+</sup> AS Limited UK	SF18.DT7000	Precision Antennas 1 p. 1.8 m front fed, J hook	Comstream DT7000 2 Watt	1.8 m	22.3 dB/K	37 dBW / 4 kHz
EA-V007 Production discontinued	29-03-96	Channel Master International GmbH Germany	62-18161-04	Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem	Comstream DT7000 2 Watt	1.8 m	24.0 dB/K	56.5 dBW / 40 kHz for TSR $\leq$ 2.5 Msym/s
EA-V009 Production discontinued	22-04-96	Channel Master International GmbH Germany	62-18161-11 62-18161-12	Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem	Fairchild RFT 2000 2 or 4 Watt	1.8 m	24.0 dB/K	56.5 dBW / 40 kHz for TSR $\leq$ 2.5 Msym/s
EA-V018 Production discontinued	20-12-96	Channel Master International GmbH Germany	62-18161-25 62-18161-26 62-18161-27 62-18161-28	Channel Master 1 p. 1.8 m offset front-fed ERA feedsystem	SSE ASAT-1214 2, 4, 8 or 16 Watt	1.8 m	24.0 dB/K	56.5 dBW / 40 kHz for TSR $\leq$ 2.5 Msym/s

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).



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EA-V024 Production discontinued	20-01-98	Channel Master International GmbH Germany	62-18161-40 62-18161-41 62-18161-42 62-18161-43	Channel Master 1 p. 1.8 m offset front-fed ERA feed system	Sierracom 3100 1, 2, 4 or 8 Watt	1.8 m	24.0 dB/K	56.5 dBW / 40 kHz for TSR $\leq$ 2.5 Msym/s
EA-V028	22-10-98	Scientific Atlanta USA	SkyRelay 3000-180	Prodelin 1194 1.8 m offset front-fed	SA 6605, 0.8 Watt LNB: Norsat or Nichimen	1.8 m	23.1 dB/K	40 dBW / 4 kHz
EA-V035	20-06-00	Precision Antennas UK	EOT18KUE/T	Precision Antennas 1.8 m single piece offset	TSAT/AS 0.5 Watt	1.8 m	22.7 dB/K	40 dBW / 4 kHz

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).



# Eutelsat Type Approval

**VSAT's = 2.4 meter  $\bar{A}$**

Status: 14 January 2005

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V001 Production discontinued	10-04-95	S <sup>+</sup> AS Limited UK	SF24.ST	Precision Antennas 2 p. 2.4 m front-fed, J hook	SSE ASAT-1214 S/N or Kstar 2 to 25 Watt Single or redundant	2.4 m	25.0 dB/K	37 dBW / 4 kHz
EA-V002 Production discontinued	16-06-95	S <sup>+</sup> AS Limited UK	SF24.DT7000	Precision Antennas 2 p. 2.4 m front-fed, J hook	Comstream DT7000 2 Watt	2.4 m	25.0 dB/K	37 dBW / 4 kHz
EA-V012	18-06-96	Matra Marconi Space UK	MMS-PML-24	Precision Antennas 2 p. 2.4 m front fed, J hook	Skydata 2401-AS-A 2, 3, 8 or 16 Watt Single & redundant	2.4 m	25.5 dB/K	37 dBW / 4 kHz
EA-V019 Production discontinued	20-12-96	Channel Master International GmbH Germany	62-24161-21 62-24161-22 62-24161-23 62-24161-24	Channel Master 2 p. 2.4 m offset front-fed ERA feedsystem	SSE K-STAR 2, 4, 8 or 16 Watt	2.4 m	25.2 dB/K	40 dBW / 4 kHz
EA-V029	15-12-98	Scientific Atlanta USA	SkyRelay 3000-240	Prodelin 1244 model 930, 931, 933 2.4 m offset front-fed	SA 6605, 0.8 Watt LNB: Norsat or Nichimen	2.4 m	25.5 dB/K	40 dBW / 4 kHz

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).



## Eutelsat Type Approval

## VSAT's = 2.4 meter $\mathcal{A}$ (cont'd)

Status: 14 January 2005

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP*
EA-V032	20-04-00	Paradigm UK	Paradigm Anasat Ku1600	Prodelin 1244 model 930, 931, 933 2.4 m offset front-fed	Anasat 2, 4, 8 or 16 Watt LNC: Anacom	2.4 m	25.3 dB/K	40 dBW / 4 kHz
EA-V036	15-09-00	Marconi Italy	Desnet 2000-24	Prodelin 1244 model 930, 931, 933 2.4 m offset front-fed	Sierracom 2, 4, 8 or 16 Watt LNB: Sierracom	2.4 m	27.0 dB/K	40 dBW / 4 kHz

\*Note: Authorised EIRP levels are given for locations at the satellite receive beam edge (EESS-502, issue 8 - rev 0, §6.1 refers).

**Applicant:**

Vislink Communications Ltd (previously Continental Microwave Ltd)  
Nashleigh Hill  
Chesham  
Bucks, HP5 3HE  
United Kingdom

Tel: +44 1494 774 400  
Fax: +44 1494 791 127  
mailto: [adove@vislink.com](mailto:adove@vislink.com)

**Certificate:**

EA-A001

**Antenna:**

DST150  
(ex. SNG140T)

**Diameter:**

1.5 m

**Standard:**

L

**Approval date:**

20-04-1995

**System Description:**

Transportable antenna for SNG applications. Offset front-fed configuration. Four piece 1.5 m diamond shape carbon fibre main reflector. Elevation over azimuth mount with tripod base and support structure. Manual pointing. Polarisation adjustment by rotation of reflector and feedsystem together. Broadband 2 port feed with waveguide switch for instant V/H switching.

**Configurations:**

One standard configuration.

**Maximum Allowed EIRP:**

55.7 dBW / 40 kHz for digital carriers with symbol rate > 2.5 MSym/s  
77.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

14.0 - 14.5 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

45.0 dBi (typical)

**Rx Gain:**

44.0 dBi (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>25 dB within 1 dB contour (typical)

**Remarks:** None

**Applicant:**

Andrew Corporation  
10500 W 153<sup>rd</sup> St.  
Orland Park, Illinois 60462  
USA

Tel: +1 708 349 5929

Fax: +1 708 349 5664

<mailto:dave.neubauer@andrew.com> (USA)

<mailto:raymond.gree@andrew.com> (Europe)

**Certificate:**

EA-A002

**Antenna:**

ES37(MPJ)K-124W  
ES37-124WS

**Diameter:**

3.7 m

**Standard:**

L, M

**Approval date:**

25-09-1995

**Revision 1 date:**

14-03-2000

**System Description:**

Fixed earth station for digital and television up-linking. Symmetrical dual reflector Gregorian configuration. Two piece 3.7 m aluminium main reflector. Broadband two port feedsystem. Pedestal type mount in manual or motorisable version or pipe type mount in manual version.

**Configurations:**

Pipe mount (fix) : ES37-124WS

Manual mount : ES37K-124W

Motorisable mount, manual jacks : ES37MPK-124W

Motorisable mount with E-motors : ES37MPJK-124W

**Maximum Allowed EIRP:**

63.0 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

57.0 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

78.5 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.0 - 14.5 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

53 dBi (typical)

**Rx Gain:**

51.5 dBi (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:** None



**Applicant:**

Andrew Ltd  
The Avenue Lochgelly Fife  
Lochgelly, KY5 9HG Scotland  
United Kingdom

Tel: +44 1592 780 561

Fax: +44 1592 782 380

<mailto:dave.neubauer@andrew.com> (USA)

<mailto:raymond.gree@andrew.com> (Europe)

**Certificate:**

EA-A003

**Antenna:**

ESA24K-1

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

9-01-1996

**System Description:**

Fixed earth station for low and medium rate digital traffic; particularly suited for VSAT applications. Symmetrical front-fed configuration. Single piece 2.4 m aluminium main reflector. Broadband two port feedsystem. Pedestal type mount in manual version only.

**Configurations:**

One standard configuration ESA24K-1. Optional Cross-axis Waveguide Kit compulsory for type approved configuration. Package with matching 80K LNA available as ES24K-1-2.

**Maximum Allowed EIRP:**

58.5 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

52.5 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

74.0 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

12.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

48.5 dBi (typical)

**Rx Gain:**

47.5 dBi (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:** None

**Applicant:**

ERA Technology Limited  
Cleeve Road  
Leatherhead, Surrey  
KT22 7SA  
United Kingdom

Tel: +44 1372 367 033  
Fax: +44 1372 367 138  
<mailto:barry.claydon@era.co.uk>

**Certificate:**

EA-A004

**Antenna:**

15Ku(S)

**Diameter:**

1.5 m

**Standard:**

L

**Approval date:**

24-01-1996

**Revision 2 date:**

24-01-1996

**Revision 3 date:**

20-12-2001

**System Description:**

Transportable antenna for SNG applications. Offset front-fed configuration. Single piece 1.5 m diamond shape reflector manufactured by two carbon fibre moulded components. Four piece ("S" version) 1.5 m diamond shape carbon fibre main reflector. Several mount and feed-chain options available.

**Configurations:**

According to the following expressions: 15Ku-Bxx-Fyy or 15KuS-Mxx-Fyy, where:

B01-B05: different fixed and foldable mounts for single piece reflector

M01-M03: different fixed and foldable mounts for four piece reflector.

**Maximum Allowed EIRP:**

60.0 dBW / 40kHz for digital carriers with symbol rate  $\leq 2.5$  Msym/s

54.0 dBW / 40kHz for digital carriers with symbol rate  $> 2.5$  Msym/s

75.5 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

46.0 dBi (typical)

**Rx Gain:**

43.7 dBi (typical)

**Tx XPD:**

$>35$  dB within  $0.2^\circ$  cone

**Rx XPD:**

$>25$  dB within  $0.2^\circ$  cone

**Remarks:**

F01: Feed chain with rotating joint

F02: Fixed feed chain, rotation of antenna for polarisation adjustment.

**Applicant:**

ERA Technology Limited  
Cleeve Road  
Leatherhead, Surrey  
KT22 7SA  
United Kingdom

Tel: +44 1372 367 033  
Fax: +44 1372 367 138  
<mailto:barry.claydon@era.co.uk>

**Certificate:**

EA-A005

**Antenna:**

10Ku

**Diameter:**

1.0 m

**Standard:**

L

**Approval date:**

10-03-1997

**System Description:**

Transportable antenna for digital and analogue SNG applications. Offset front-fed configuration. Single piece 1.0 m diamond shape aluminium main reflector. Several mount and feed-chain options available.

**Configurations:**

According to the following expression: 10Ku-Bxx-Fyy,

where:

B01, B02: fixed and foldable mounts

F01, F02: narrow-band OMT resp. wide-band OMT.

**Maximum Allowed EIRP:**

56.8 dBW / 40 kHz for digital carriers with symbol rate  $\leq 2.5$  MSym/s

50.8 dBW / 40 kHz for digital carriers with symbol rate  $> 2.5$  MSym/s

72.3 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

14.0 - 14.5 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

42.8 dBi (typical)

**Rx Gain:**

41.0 dBi (typical)

**Tx XPD:**

>35 dB within 0.2° cone

**Rx XPD:**

>25 dB within 0.2° cone

**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A006

**Antenna:**

2.4 DMK

**Diameter:**

2.4 m

**Standard:**

L

**Approval date:**

10-12-1997

**System Description:**

Transportable truckmount antenna for analogue SNG applications. Offset dual reflector configuration. Single piece 2.4 m aluminium main reflector. One Rx port and one Tx port. Fully motorised mount.

**Configurations:**

One standard configuration.

**Maximum Allowed EIRP:**

61.5 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
55.5 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
77.0 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

49.0 dBi (typical)

**Rx Gain:**

47.3 dBi (typical)

**Tx XPD:**

$>$ 35 dB

**Rx XPD:**

$>$ 35 dB

**Remarks:** None

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A007

**Antenna:**

2.4 DPK

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

10-12-1997

**System Description:**

Fixed earth station for low and medium rate digital traffic. Offset dual reflector configuration. Single piece 2.4 m aluminium main reflector. One Rx and one Tx port. Pedestal type mount, manual version only.

**Configurations:**

One standard configuration. Hot air de-icing option.

**Maximum Allowed EIRP:**

60.6 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
54.6 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
76.1 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

48.7 dBi (typical)

**Rx Gain:**

47.3 dBi (typical)

**Tx XPD:**

$>$ 35 dB

**Rx XPD:**

$>$ 35 dB

**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Fax: +1 903 988 6867

mailto:alan.pollard@tripointglobal.com

**Certificate:**

EA-A008

**Antenna:**

2.4 DPVK

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

19-01-1998

**Expiry date:**

14-02-2005

**System Description:**

Fixed earth station for low and medium rate digital traffic. Offset dual reflector configuration. Two piece 2.4 m aluminium main reflector. One Rx and one Tx port. Pedestal type mount.

**Configurations:**

One standard configuration. De-icing option.

**Maximum Allowed EIRP:**

58.7 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

52.7 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

48.7 dBi (typical)

**Rx Gain:**

47.3 dBi (typical)

**Tx XPD:**

$>$ 35 dB

**Rx XPD:**

$>$ 35 dB

**Remarks:** None

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570

Fax: +49 7234 145 5710

<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-A009

**Antenna:**

62-18452-01

**Diameter:**

1.8 m

**Standard:**

L, M

**Approval date:**

19-01-1999

**Revision 1 date:**

19-05-2000

**Expiry date:**

14-01-2005

**System Description:**

General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Single piece SMC main reflector, aluminium sub reflector in compact configuration. Two port Channel Master OMT, dedicated Tx and Rx.

**Models Available:**

One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

**Maximum Allowed EIRP:**

58.7 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

52.7 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

46.7 dBi at 14.25 GHz (typical)

**Rx Gain:**

45.0 dBi at 11.70 GHz (typical)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 35 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.A. Type Approval Summary Sheet



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**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570

Fax: +49 7234 145 5710

<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-A010

**Antenna:**

62-24452-01

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

19-01-1999

**Expiry date:**

14-01-2005

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**System Description:**

General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Two piece SMC main reflector, aluminium sub reflector in compact configuration. Two port OMT, dedicated Tx and Rx.

**Models Available:**

One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

**Maximum Allowed EIRP:**

63.6 dBW / 40 kHz for digital carriers with symbol rate  $\leq 2.5$  MSym/s

57.6 dBW / 40 kHz for digital carriers with symbol rate  $> 2.5$  MSym/s

79.1 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

49.6 dBi (typical)

**Rx Gain:**

47.9 dBi (typical)

**Tx XPD:**

>35 dB anywhere

**Rx XPD:**

>35 dB anywhere

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**Remarks:**

Production discontinued



**Applicant:**

Vislink Communications Ltd (previously Advent Communications Ltd)  
Nashleigh Hill  
Chesham  
Bucks, HP5 3HE  
United Kingdom

Tel: +44 1494 774 400  
Fax: +44 1494 791 127  
<mailto:adove@vislink.com>

**Certificate:**

EA-A011

**Antenna:**

Newswift 120 KMA

**Diameter:**

1.2 m

**Standard:**

L, M

**Approval date:**

22-10-1999

**System Description:**

General purpose earth station for analogue and digital transmission. Offset fed, prime focus configuration. Carbon fibre main reflector. Two port OMT with compensated feed.

**Models Available:**

Vehicle or flyaway.

**Maximum Allowed EIRP:**

53.4 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
47.4 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
68.9 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

43.4 dBi (typical at 14.25 GHz)

**Rx Gain:**

41.4 dBi (typical at 11.7 GHz)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Vislink Communications Ltd (previously Advent Communications Ltd)  
Nashleigh Hill  
Chesham  
Bucks, HP5 3HE  
United Kingdom

Tel: +44 1494 774 400  
Fax: +44 1494 791 127  
<mailto:adove@vislink.com>

**Certificate:**

EA-A012

**Antenna:**

Newswift 150 KMA

**Diameter:**

1.5 m

**Standard:**

L, M

**Approval date:**

22-10-1999

**System Description:**

General purpose earth station for analogue and digital transmission. Offset fed, prime focus configuration. Carbon fibre main reflector. Two port OMT with compensated feed.

**Models Available:**

Vehicle or flyaway.

**Maximum Allowed EIRP:**

57.3 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
51.3 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
72.8 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

45.3 dBi (typical at 14.25 GHz)

**Rx Gain:**

43.4 dBi (typical at 11.7 GHz)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Precision Antennas  
Masons Road  
Stratford-upon-Avon  
Warwickshire CV37 9NU  
United Kingdom

Tel: +44 1789 266 131

Fax: +44 1789 298 497

mailto:chriscox@precision-antennas.co.uk

**Certificate:**

EA-A013

**Antenna:**

EOT18KUE

**Diameter:**

1.8 m

**Standard:**

L, M

**Approval date:**

27-01-2000

**System Description:**

General purpose earth station for analogue and digital transmission. Offset fed, prime focus configuration. Metallic main reflector. Two port OMT with compensated feed.

**Configurations:**

One standard configuration.

**Maximum Allowed EIRP:**

56.4 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

50.4 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

71.9 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

46.4 dBi (typical at 14.25 GHz)

**Rx Gain:**

45.2 dBi (typical at 11.7 GHz)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>27 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570

Fax: +49 7234 145 5710

<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-A014

**Antenna:**

62-24452-02

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

15-09-2000

**Expiry date:**

14-01-2005

**System Description:**

General purpose earth station for digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. Two piece SMC main reflector, aluminium sub reflector in compact configuration. Two port Channel Master OMT, dedicated Tx and Rx.

**Models Available:**

One standard configuration. Optional de-icing systems for feed and main reflector. Optional matching non-penetrating roofmount.

**Maximum Allowed EIRP:**

61.2 dBW / 40 kHz for digital carriers with symbol rate  $\leq 2.5$  MSym/s

55.2 dBW / 40 kHz for digital carriers with symbol rate  $> 2.5$  MSym/s

76.7 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

49.2 dBi (typical)

**Rx Gain:**

47.5 dBi (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A015

**Antenna:**

3.8 - meter - DPK

**Diameter:**

3.8 m

**Standard:**

L, M

**Approval date:**

12-01-2001

**System Description:**

General purpose earth station for analogue and digital transmission up to higher bit rates. Dual optics offset Gregorian configuration. 12 panels 3.8 m aluminium main reflector. Broadband two port feedsystem. Pipe type mount in manual or motorisable version.

**Maximum Allowed EIRP:**

60.5 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
54.5 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
76 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

52.5 dBi (typical at 14.25 GHz)

**Rx Gain:**

50.7 dBi (typical at 11.70 GHz)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 35 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A016

**Antenna:**

1.5 – meter SMK-LT

**Diameter:**

1.5 m

**Standard:**

L, M

**Approval date:**

12-01-2001

**System Description:**

Transportable truck mount antenna for analogue and digital SNG applications. Offset fed, prime focus configuration. Carbon fibre reflector. Two ports OMT with compensated feed.

**Models Available:**

One standard foldable configuration to be installed on vehicles.

**Maximum Allowed EIRP:**

55.7 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
49.7 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
71.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 – 12.75 GHz

**Tx Gain:**

45.7 dBi (typical at 14.25 GHz)

**Rx Gain:**

44.5 dBi (typical at 12.75 GHz)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 25 dB within 1 dB contour

**Remarks:** None

**Applicant:**

ERA Technology Limited  
Cleeve Road  
Leatherhead, Surrey  
KT22 7SA  
United Kingdom

Tel: +44 1372 367 033  
Fax: +44 1372 367 138  
<mailto:barry.claydon@era.co.uk>

**Certificate:**

EA-A017

**Antenna:**

12Ku Diamond

**Diameter:**

1.2 m

**Standard:**

L

**Approval date:**

22-12-2000

**System Description:**

Transportable antenna for SNG applications. Offset front-fed configuration. One piece 1.2 m diamond shape Carbon Fibre Reinforced Plastic main reflector. Several mount and feed-chain options available.

**Configurations:**

According to the following expressions: 12Ku Diamond Fxx.

**Maximum Allowed EIRP:**

59.0 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s  
53.0 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s  
74.5 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

44 dBi (typical at 14.00 GHz)

**Rx Gain:**

42.3 dBi (typical at 11.70 GHz)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 25 dB within 1 dB contour

**Remarks:**

F01: Feed chain with rotating joint

F02: Fixed feed chain, rotation of antenna for polarisation adjustment.

**Applicant:**

Page Europa  
Via del Serafico 200  
00142 Roma  
Italy

Tel: +39 06 50 39 52 97

Fax: +39 06 50 39 53 35

<mailto:marino.capurso@pageuropa.it>

**Certificate:**

EA-A018

**Antenna**

825-2020-001

**Diameter:**

4.8 m

**Standard:**

L

**Approval date:**

18-10-2002

**Revision 1 date:**

21-02-2003

**System Description:**

Transportable Earth Station based on Page Europa 4.8 m Cassegrain antenna model 825-2020-001, with ERA feed subsystem.

**Configurations:**

One standard configuration.

**Maximum Allowed EIRP:**

65.4 dBW / 40KHz for digital carriers with symbol rate  $\leq$  2.5 Msym/s

59.4 dBW / 40 KHz for digital carriers with symbol rate  $>$  2.5 Msym/s

80.9 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

55.4 dBi (typical at 14.25 GHz)

**Rx Gain:**

54 dBi (typical at 12.50 GHz)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 35 dB within 1 dB contour

**Remarks:**

- 1) The feed subsystem is manufactured with a spinning machine by ERA Technology Ltd.
- 2) The sub-reflector is positioned with respect to the main reflector and the feed by four struts, the length of which was calibrated once for all in factory.  
Each strut is identified and positioned in only one way with respect to the main and sub-reflectors by means of colour codes and one pin.



# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

<mailto:olivier.dhellemmes@groupe-cahors.com>

**Certificate:**

EA-A019

**Antenna:**

75 Rx/Tx ANT  
0141051  
0141052  
0141053

**Diameter:**

0.75 m

**Standard:**

M

**Approval date:**

22-11-2002

**Revision 1 date:**

13-01-2004

**System Description:**

Broadband Interactive Earth Station based on VISIOSAT 0.75 m offset front fed antenna T.N. 0141051/2/3.

**Models Available:**

Version 0141051 with VICTORY OMT and AZ EL mount with polarisation adjustment.

Version 0141052 with INVACOM OMT LNB included and AZ EL mount with polarisation adjustment.

Version 0141053 with Channel Master OMT and AZ EL mount with polarisation adjustment.

**Maximum Allowed EIRP:**

39 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz (OMT Victory)  
14.00 - 14.50 GHz (OMT Invacom and  
Channel Master)

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

39 dBi (typical at 14.25 GHz)

**Rx Gain:**

37.5 dBi (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Patriot Antenna Systems  
704 North Clark Street  
Albion, MI 49224  
USA

Tel: +1 517 629 5990  
Fax: +1 517 629 6690  
<mailto:stevep@sepatriot.com>

**Certificate:**

EA-A020

**Antenna:**

TXEUT-120KUDO

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

02-06-2003

**System Description:**

Fixed earth station for low and medium rate digital traffic; particularly suited for VSAT applications. Dual optics Offset Gregorian configuration. Single piece 1.2 m galvanised steel main reflector. Two port die-cast OMT. Pedestal Az El Mount in manual version only.

**Configurations:**

One standard configuration TXEUT-120KUDO.

**Maximum Allowed EIRP:**

51.3 dBW / 40 kHz for digital carriers with symbol rate  $\leq$  2.5 MSym/s

45.3 dBW / 40 kHz for digital carriers with symbol rate  $>$  2.5 MSym/s

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.0 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

43.3 dBi (typical at 14.25 GHz)

**Rx Gain:**

41.7 dBi (typical at 11.725 GHz)

**Tx XPD:**

$>$ 35 dB within 1 dB contour

**Rx XPD:**

$>$ 35 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Patriot Antenna Systems  
704 North Clark Street  
Albion, MI 49224  
USA

Tel: +1 517 629 5990  
Fax: +1 517 629 6690  
<mailto:stevep@sepatriot.com>

**Certificate:**

EA-A021

**Antenna:**  
TXEUT-90KA

**Diameter:**  
0.9 m

**Standard:**  
L

**Approval date:**  
Pending

**System Description:**

Fixed earth station for low and medium rate digital traffic for Eutelsat HB6 Skyplex applications. Front fed offset configuration. Single piece 0.9 m galvanised steel main reflector. Two port die-cast OMT. Az El Mount with reinforced steel boom arm.

**Configurations:**

One standard configuration TXEUT-90KA. Option for a small non penetrating mount with pad.

**Maximum Allowed EIRP:**

37.1 dBW / 40 kHz for digital carriers transmitted to HB6<sup>TM</sup> Skyplex transponders

anywhere at the HB6<sup>TM</sup> satellite receive G/T contours  $\geq 10$  dB/K.

**Tx Frequency:**

29.50 - 30.00 GHz

**Rx Frequency:**

19.70 - 20.20 GHz

**Tx Gain:**

47.1 dBi (typical at 29.75 GHz)

**Rx Gain:**

43.6 dBi (typical at 19.95 GHz)

**Tx XPD:**

>25 dB within 1 dB contour

**Rx XPD:**

>25 dB within 1 dB contour

**Remarks:** Utilisation of these antennas is not allowed for transmission to transponders K158 or K159 in channels that overlap in frequency with the opposite polarisation, from a location where the G/T of the targetted transponder is lower than the G/T of the opposite transponder.

**Applicant:**

ERA Technology Limited  
Cleeve Road  
Leatherhead, Surrey  
KT22 7SA  
United Kingdom

Tel: +44 1372 367 033  
Fax: +44 1372 367 138  
<mailto:barry.claydon@era.co.uk>

**Certificate:**

EA-A022

**Antenna:**

10KuS

**Diameter:**

1.0 m

**Standard:**

L

**Approval date:**

24-10-2003

**System Description:**

Transportable antenna for digital and analogue SNG applications. Offset front-fed configuration. Four piece 1.0 m diamond shape carbon fibre main reflector.

**Configurations:**

One standard configuration 10 KuS-F01 with rotary joint.

**Maximum Allowed EIRP:**

56.7 dBW / 40kHz for digital carriers with symbol rate  $\leq 2.5$  Msym/s  
50.7 dBW / 40kHz for digital carriers with symbol rate  $> 2.5$  Msym/s  
72.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBRDs<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EES-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

42.7 dBi (typical at 14.25 GHz)

**Rx Gain:**

40.7 dBi (typical at 11.7 GHz)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>25 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A023

**Antenna:**

4.8m KPK

**Diameter:**

4.8 m

**Standard:**

L

**Approval date:**

10-11-2003

**System Description:**

General purpose earth station for analogue and digital transmission up to higher bit rates. Dual optics axi-symmetric Compact Cassegrain configuration. 16 panels 4.8 m aluminium main reflector. Broadband two port feedsystem. Pipe type mount in manual or motorisable version.

**Configurations:**

Two standard configurations with jackscrew drive system or strut drive system.

**Maximum Allowed EIRP:**

63.0 dBW / 40kHz for digital carriers with symbol rate  $\leq 2.5$  Msym/s  
57.0 dBW / 40kHz for digital carriers with symbol rate  $> 2.5$  Msym/s  
78.5 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

55.0 dBi (typical at 14.25 GHz)

**Rx Gain:**

53.5 dBi (typical at 11.85 GHz)

**Tx XPD:**

>35 dB anywhere

**Rx XPD:**

>35 dB anywhere

**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet



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**Applicant:**

Vertex RSI  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Fax: +1 903 988 6867  
<mailto:alan.pollard@tripointglobal.com>

**Certificate:**

EA-A024

**Antenna:**

4.8m KPC

**Diameter:**

4.8 m

**Standard:**

L

**Approval date:**

10-11-2003

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**System Description:**

General purpose earth station for analogue and digital transmission up to higher bit rates. Dual optics axi-symmetric Compact Cassegrain configuration. 16 panels 4.8 m aluminium main reflector. Broadband two port feedsystem. Pipe type mount in manual or motorisable version.

**Configurations:**

Two standard configurations with jackscrew drive system or strut drive system.

**Maximum Allowed EIRP density:**

58.8 dBW / 40 kHz

anywhere for ATLANTIC BIRD 3<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 refers).

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**Tx Frequency:**

5.850-6.425 GHz

**Rx Frequency:**

3.625-4.2 GHz

**Tx Gain:**

47.8 dBi (typical at 6.232 GHz)

**Rx Gain:**

43.7 dBi (typical at 4 GHz)

**Tx XPD:**

>27 dB within 1 dB contour

**Rx XPD:**

>19.7 dB within 1 dB contour

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**Remarks:** None

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

mailto:olivier.dhellemmes@groupe-cahors.com

**Certificate:**

EA-A025

**Antenna:**

90 DR

0141020

0141027

0141011

**Diameter:**

0.9 m

**Standard:**

M

**Approval date:**

13-01-2004

**System Description:**

Broadband Interactive Earth Station based on VISIOSAT 0.9 m dual offset Gregorian antenna versions 0141020 with OMT VICTORY, 0141027 with OMT INVACOM, LNB included and 0141011 with OMT Channel Master.

**Models Available:**

0141020 with OMT VICTORY, 0141027 with OMT INVACOM, LNB included and 0141011 with OMT Channel Master.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz (OMT Victory)  
14.00 - 14.50 GHz (OMT Invacom and  
Channel Master)

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

40.1 dBi (typical at 14.25 GHz)

**Rx Gain:**

38.7 dBi (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

Tel: +1 919 989 1701  
Fax: +1 919 989 2200  
<mailto:peter.gardner@andrew.com>

**Certificate:**

EA-A026

**Antenna:**

62-18452-02

**Diameter:**

1.8 m

**Standard:**

L, M

**Approval date:**

07-01-2005

**System Description:**

General purpose earth station for digital transmission up to highest bit rates. Dual optics offset Gregorian configuration. Single piece SMC main reflector, aluminium sub-reflector in compact configuration. Two port Andrew OMT, dedicated Tx and Rx.

**Configurations:**

One standard configuration. Optional de-icing system for feed, main and sub-reflector. Optional matching non-penetrating roofmounts.

**Maximum Allowed EIRP density:**

58.7 dBW/40kHz for digital carriers with symbol rate  $\leq 2.5$  Msym/s  
52.7 dBW/40kHz for digital carriers with symbol rate  $> 2.5$  Msym/s  
74.2 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDs<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev. 0, §6.1 refers).

**Tx Frequency:**

13.75-14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

46.7 dBi (typical at 14.25 GHz)

**Rx Gain:**

45.0 dBi (typical at 11.70 GHz)

**Tx XPD:**

>35 dB within -1 dB contour

**Rx XPD:**

>35 dB within -1 dB contour

**Remarks:** None



**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

Tel: +1 919 989 1701  
Fax: +1 919 989 2200  
<mailto:peter.gardner@andrew.com>

**Certificate:**

EA-A027

**Antenna:**

62-24452-02

**Diameter:**

2.4 m

**Standard:**

L, M

**Approval date:**

07-01-2005

**System Description:**

General purpose earth station for digital transmission up to highest bit rates. Dual optics offset Gregorian configuration. Two piece SMC main reflector, aluminium sub-reflector in compact configuration. Two port Andrew OMT.

**Configurations:**

One standard configuration. Optional de-icing system for feed, main and sub-reflector. Optional matching non-penetrating roofmount.

**Maximum Allowed EIRP density:**

61.2 dBW/40kHz for digital carriers with symbol rate  $\leq 2.5$  Msym/s  
55.2 dBW/40kHz for digital carriers with symbol rate  $> 2.5$  Msym/s  
76.7 dBW for a standard 5.632 Msym/s digital TV carrier

at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDs<sup>TM</sup> (EESS-400, issue 9 - rev 0, §6.1 and EESS-502, issue 8 - rev. 0, §6.1 refers).

**Tx Frequency:**

13.75-14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

49.2 dBi (typical at 14.25 GHz)

**Rx Gain:**

47.5 dBi (typical at 11.70 GHz)

**Tx XPD:**

>35 dB within -1 dB contour

**Rx XPD:**

>35 dB within -1 dB contour

**Remarks:** None

**Applicant:**

S<sup>+</sup>AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland

Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
<mailto:mik@sasltd.com>

**Certificate:**

EA-V001

**VSAT:**

SF24.ST

**Diameter:**

2.4 m

**Approval date:**

10-04-1995

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece, symmetrical, J hook front fed). RF equipment: SSE Technologies Kstar or ASAT-1214 S/N Ku band transceiver(s), with power amplifier of 2, 4, 8, 16, 20 or 25 Watt.

**Models Available:**

According to the following expression:  
SF24.ST(x)(S/N/K)[R]

where:

x = amplifier output power (i.e. 02, 04, 08, 16, 20 or 25)

ASAT S/N or Kstar transceiver type

R indicates redundancy (no R = single thread).

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

48.3 dBi (typical)

**G/T:**

25.0 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:**

Production discontinued

**Applicant:**

S<sup>+</sup>AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland

Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
<mailto:mik@sasltd.com>

**Certificate:**

EA-V002

**VSAT:**

SF24.DT7000

**Diameter:**

2.4 m

**Approval date:**

16-06-1995

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece, symmetrical, J hook front-fed). RF equipment: Comstream DT7000 Ku band transceiver with power amplifier of 2 Watt. Single thread.

**Models Available:**

One standard configuration.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

48.3 dBi (typical)

**G/T:**

25.0 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:**

Production discontinued

**Applicant:**

S<sup>+</sup>AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland

Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
<mailto:mik@sasltd.com>

**Certificate:**

EA-V003

**VSAT:**

SF18.ST

**Diameter:**

1.8 m

**Approval date:**

31-08-1995

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on Precision Metal E1812HP/01 antenna (1.8 m, one piece, symmetrical, J hook front-fed). RF equipment: SSE Technologies Kstar or ASAT-1214 S/N Ku band transceiver(s), with power amplifier of 2, 4, 8, 16, 20 or 25 Watt.

**Models Available:**

According to the following expression:

SF18.ST(x)(S/N/K)[R]

where:

x = amplifier output power (i.e. 02, 04, 08, 16, 20 or 25)

ASAT S/N or Kstar transceiver type

R indicates redundancy (no R = single thread).

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

45.8 dBi (typical)

**G/T:**

22.3 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:**

Production discontinued

**Applicant:**

S<sup>+</sup>AS Limited  
6, The Walled Garden  
Wallhouse, Torpichen  
West Lothian EH48 4NQ  
Scotland

Tel: +44 1506 636 314  
Fax: +44 1506 636 315  
<mailto:mik@sasltd.com>

**Certificate:**

EA-V004

**VSAT:**

SF24.DT7000

**Diameter:**

1.8 m

**Approval date:**

01-09-1995

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on Precision Metal E1812HP/01 antenna (1.8 m, one piece, symmetrical, J hook front-fed). RF equipment: Comstream DT7000 Ku band transceiver with power amplifier of 2 Watt. Single thread.

**Models Available:**

One standard configuration.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

45.8 dBi (typical)

**G/T:**

22.3 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

NEC Corporation, Yokohama, Japan  
represented by:  
NEC Benelux  
Antareslaan 65 PO Box 3110  
NL-2132 KC JE Hoofddorp  
The Netherlands

Tel: +31 23 5548 481  
Fax: +31 23 5548 588  
<mailto:alex.zehnder@nl.necur.com>

**Certificate:**

EA-V005

**VSAT:**

NEXTAR 1.2 m

**Diameter:**

1.2 m

**Approval date:**

19-10-1995

**System Description:**

VSAT terminal consisting of NEC 1.2 m single piece front-fed offset antenna with NEC focal plane outdoor unit and indoor units for AA/TDMA, In-Band Voice and SCPC Voice and/or Data.

**Models Available:**

One standard antenna configuration model E8639 with either a D6537 or E5847 outdoor unit with 1 or 2 Watt SSPA, and indoor unit(s) of model D8436, E3096 or E8200.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

43.0 dBi (typical)

**G/T:**

19.4 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>27 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V006

**VSAT:**

62-12161-04

**Diameter:**

1.2 m

**Approval date:**

29-03-1996

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Comstream DT7000 Ku band transceiver with 2 Watt power amplifier.

**Models Available:**

One standard configuration.

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

43.0 dBi

**G/T:**

20.5 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

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**Remarks:**

Production discontinued

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V007

**VSAT:**

62-18161-04

**Diameter:**

1.8 m

**Approval date:**

29-03-1996

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Comstream DT7000 Ku band transceiver with 2 Watt power amplifier.

**Models Available:**

One standard configuration.

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

46.5 dBi

**G/T:**

24 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

---

**Remarks:**

Production discontinued



# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V008

**VSAT:**

62-12161-11/12

**Diameter:**

1.2 m

**Approval date:**

22-04-1996

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Fairchild RFT2000 Ku-Band transceiver with 2 or 4 Watt power amplifier.

**Models Available:**

Model 62-12161-11: 2 Watt SSPA  
Model 62-12161-12: 4 Watt SSPA.

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

43.0 dBi

**G/T:**

20.5 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V009

**VSAT:**

62-18161-11/12

**Diameter:**

1.8 m

**Approval date:**

22-04-1996

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread Fairchild RFT2000 Ku-Band transceiver with 2 or 4 Watt power amplifier.

**Models Available:**

Model 62-18161-11: 2 Watt SSPA  
Model 62-18161-12: 4 Watt SSPA.

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

46.5 dBi

**G/T:**

24 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Gilat Satellite Networks Ltd.  
P.O. Box 3397  
Yegia Kapayim St.  
79130 Kiryat Arye, Petach Tikva  
Israel

Tel: +972 3 9252 386  
Fax: +972 3 9213 299  
<mailto:menachema@gilat.com>

**Certificate:**

EA-V010

**VSAT:**

GRF-090/02

**Diameter:**

0.9 m

**Approval date:**

29-04-1996

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**System Description:**

VSAT terminal based on Fibo 0.9 m dual offset Gregorian antenna. Transmit equipment consists of single thread RF-unit Gilat LN001210 with 0.5 or 1.0 Watt power amplifier incorporated. Receive equipment: New JRC NJR2155A LNB.

**Models Available:**

Model GRF-090/02-0500KU12: 0.5 Watt SSPA  
Model GRF-090/02-1000KU12: 1.0 Watt SSPA.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

41.8 dBi

**G/T:**

19.5 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

---

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Gilat Satellite Networks Ltd.  
P.O. Box 3397  
Yegia Kapayim St.  
79130 Kiryat Arye, Petach Tikva  
Israel

Tel: +972 3 9252 386  
Fax: +972 3 9213 299  
<mailto:menachema@gilat.com>

**Certificate:**

EA-V011

**VSAT:**

GRF-120/02

**Diameter:**

1.2 m

**Approval date:**

29-04-1996

**System Description:**

VSAT terminal based on Fibo 1.2 m dual offset Gregorian antenna. Transmit equipment consists of single thread RF-unit Gilat LN001210 with 0.5 or 1.0 Watt power amplifier incorporated. Receive equipment: New JRC NJR2155A LNB.

**Models Available:**

Model GRF-120/02-0500KU12: 0.5 Watt SSPA  
Model GRF-120/02-1000KU12: 1.0 Watt SSPA

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

43.7 dBi

**G/T:**

22.0 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Matra Marconi Space UK Ltd  
Abbey Works, Titchfield  
PO14 4QA Fareham, Hampshire  
United Kingdom

Tel: +44 1705 708550  
Fax: +44 1705 708499

**Certificate:**

EA-V012

**VSAT:**

MMS-PML-24

**Diameter:**

2.4 m

**Approval date:**

18-06-1996

**System Description:**

VSAT terminal based on Precision Metal E2412HP/02 antenna (2.4 m, two piece symmetrical, J hook front-fed). Transmit equipment consists of Skydata RF-unit 2401-AS-A in 2/3/8/16 Watt single thread or 8/16 Watt redundant configuration. Receive equipment: NJR2136S or Norsat 1200B LNB.

**Models Available:**

Model MMS-PML-2402:	2 Watt SSPA, Single Thread
Model MMS-PML-2403:	3 Watt SSPA, Single Thread
Model MMS-PML-2408:	8 Watt SSPA, Single Thread
Model MMS-PML-2416:	16 Watt SSPA, Single Thread
Model MMS-PML-2408-R:	8 Watt SSPA, Redundant
Model MMS-PML-2416-R:	16 Watt SSPA, Redundant

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

48.3 dBi (typical)

**G/T:**

25.5 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet



---

**Applicant:**

TSAT A.S.  
P.O. Box 333  
1379 Nesbru  
Norway

Tel: +47 66 77 44 44  
Fax: +47 66 77 44 01  
<mailto:stein.harstad@tsat.no>

**Certificate:**

EA-V013

**VSAT:**

OA1600B

**Diameter:**

0.9 m

**Approval date:**

06-11-1996

---

**System Description:**

VSAT terminal based on Fibo 0.9 m dual offset Gregorian antenna model 58000. Integrated transmit/receive radio unit Normarc RFA1188 with solid state 0.1, 0.5 or 2.0 Watt SSPA.

**Models Available:**

One basic model with either 0.1, 0.5 or 2.0 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

---

**Tx Gain:**

41.4 dBi (typical)

**G/T:**

19.6 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

---

**Remarks:**

The company known as Normarc A/S is now known as Teamcom A/S.

# Eutelsat s.a. Type Approval Summary Sheet



---

**Applicant:**

TSAT A.S.  
P.O. Box 333  
1379 Nesbru  
Norway

Tel: +47 66 77 44 44  
Fax: +47 66 77 44 01  
<mailto:stein.harstad@tsat.no>

**Certificate:**

EA-V014

**VSAT:**

OA1600C

**Diameter:**

1.2 m

**Approval date:**

06-11-1996

---

**System Description:**

VSAT terminal based on Fibo 1.2 m dual offset Gregorian antenna model 59000. Integrated transmit/receive radio unit Normarc RFA1188 with solid state 0.1, 0.5 or 2.0 Watt SSPA.

**Models Available:**

One basic model with either 0.1, 0.5 or 2.0 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

---

**Tx Gain:**

43.4 dBi (typical)

**G/T:**

22.1 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

---

**Remarks:**

The company known as Normarc A/S is now known as Teamcom A/S.

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

GEC Capital Spacenet Services, Inc  
1750 Old Meadow Road  
McLean, Virginia 22102  
USA

Tel: +1 703 848 1300  
Fax: +1 703 848 1036  
<mailto:pr@spacenet.com>

**Certificate:**

EA-V015

**VSAT:**

Skydata Advantage - 0.98A

**Diameter:**

0.98 m

**Approval date:**

17-12-1996

**Expired date:**

14-01-2005

**System Description:**

VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. Transmit radio unit Gilat AN3422-01 with solid state 0.5 Watt SSPA. Receive equipment either Normarc LNB model 4000B or Comsat LNB model NJR2136H or NJR2536N.

**Models Available:**

One basic model with 0.5 Watt SSPA and either Normarc or Comsat LNB. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

41.0 dBi (typical)

**G/T:**

18.3 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:**

No longer valid due to design changes affecting performance.



# Eutelsat s.a. Type Approval Summary Sheet



---

**Applicant:**

GEC Capital Spacenet Services, Inc  
1750 Old Meadow Road  
McLean, Virginia 22102  
USA

Tel: +1 703 848 1000  
Fax: +1 703 848 1036  
<mailto:pr@spacenet.com>

**Certificate:**

EA-V016

**VSAT:**

Skydata Advantage – 1.2 A

**Diameter:**

1.20 m

**Approval date:**

17-12-1996

**Expiry date:**

14-01-2005

---

**System Description:**

VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. Transmit radio unit Gilat AN3422-01 with solid state 0.5 Watt SSPA. Receive equipment either Normarc LNB model 4000B or Comsat LNB model NJR2136H or NJR2536N.

**Models Available:**

One basic model with 0.5 Watt SSPA and either Normarc or Comsat LNB. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

---

**Tx Gain:**

42.7 dBi (typical)

**G/T:**

20.5 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

---

**Remarks:**

No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V017

**VSAT:**

62-12161-25/26/27/28

**Diameter:**

1.2 m

**Approval date:**

20-12-1996

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 1.2 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. ASAT-1214 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

**Models Available:**

Model 62-12161-25: 2 Watt SSPA  
Model 62-12161-26: 4 Watt SSPA  
Model 62-12161-27: 8 Watt SSPA  
Model 62-12161-28: 16 Watt SSPA

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 53 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

43.0 dBi

**G/T:**

20.5 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V018

**VSAT:**

62-18161-25/26/27/28

**Diameter:**

1.8 m

**Approval date:**

20-12-1996

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. ASAT-1214 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

**Models Available**

Model 62-18161-25: 2 Watt SSPA  
Model 62-18161-26: 4 Watt SSPA  
Model 62-18161-27: 8 Watt SSPA  
Model 62-18161-28: 16 Watt SSPA

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBirds™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

46.5 dBi

**G/T:**

24 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570

Fax: +49 7234 145 5710

<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V019

**VSAT:**

62-24161-21/22/23/24

**Diameter:**

2.4 m

**Approval date:**

20-12-1996

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 2.4 m two piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread S.S.E. K-STAR 3040 Ku-Band transceiver with 2, 4, 8 or 16 Watt power amplifier.

**Models Available:**

Model 62-24161-21: 2 Watt SSPA

Model 62-24161-22: 4 Watt SSPA

Model 62-24161-23: 8 Watt SSPA

Model 62-24161-24: 16 Watt SSPA

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

49.0 dBi

**G/T:**

25.2 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

L.Teq Limited  
Lapwing 440  
Frimley Business Park  
Frimley, Surrey  
GU16 5SG  
United Kingdom

Tel: +44 1276 686566  
Fax: +44 1276 686550  
<mailto:dsmith@lteq.com>

**Certificate:**

EA-V020

**VSAT:**

ALPHA/12POS

**Diameter:**

1.2 m

**Approval date:**

2-04-1997

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134 and EF-Data Transmit/Receive radio equipment. Single thread version only.

**Models Available:**

Either 2 / 4 Watt version with EF-Data KST-2000 or 8 / 16 Watt version with KST-12000. LNA Noise Temperature 85K-120K depending on options.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

42.7 dBi (typical)

**G/T:**

19.7 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

NEC Corporation, Yokohama, Japan  
represented by:  
NEC Benelux  
Antareslaan 65 PO Box 3110  
NL-2130 KC JE Hoofddorp  
The Netherlands

Tel: +31 23 5548 548  
Fax: +31 23 5548 547  
<mailto:alex.zehnder@nl.neceur.com>

**Certificate:**

EA-V021

**VSAT:**

NEXTAR 0.9 m

**Diameter:**

0.9 m

**Approval date:**

02-04-1997

**Revision 1 Date:**

22-10-1999

**System Description:**

VSAT terminal based on Fibo 0.9 m dual offset Gregorian antenna model 58000. Integrated transmit/receive radio unit NEC E5847 with solid state 1 or 2 Watt SSPA. Indoor unit(s) of model D8436, E3096 or E8200.

**Models Available:**

One basic model with either 1 or 2 Watt SSPA.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

41.4 dBi (typical at 14.25 GHz)

**G/T:**

19 dB/K (typical at 12.6 GHz)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>35 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Hughes Network Systems  
Saxon Street, Linford Wood  
Milton Keynes  
MK14 6LD  
United Kingdom

Tel: +44 1908 326250  
Fax: +44 1908 221127  
<mailto:s.watts@eu.hns.com>

**Certificate:**

EA-V022

**VSAT:**

PESX000 - 0.98 m

**Diameter:**

0.98 m

**Approval date:**

14-11-1997

**Expired date:**

14-01-2005

---

**System Description:**

VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. MTI radio unit incorporating a 2 Watt SSPA.

**Models Available:**

One basic model with 2 Watt SSPA. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

41.0 dBi (typical)

**G/T:**

17.6 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

No longer valid due to design changes affecting performance.

# Eutelsat s.a. Type Approval Summary Sheet



---

**Applicant:**

Hughes Network Systems  
Saxon Street, Linford Wood  
Milton Keynes  
MK14 6LD  
United Kingdom

Tel: +44 1908 326250  
Fax: +44 1908 221127  
<mailto:s.watts@eu.hns.com>

**Certificate:**

EA-V023

**VSAT:**

PESX000 - 1.2 m

**Diameter:**

1.2 m

**Approval date:**

14-11-1997

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. MTI radio unit incorporating a 2 Watt SSPA.

**Models Available:**

One basic model with 2 Watt SSPA. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

42.7 dBi (typical)

**G/T:**

19.3 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

---

**Remarks:**

No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.



**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145570  
Fax: +49 7234 1455710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V024

**VSAT:**

62-18161-40/41/42/43

**Diameter:**

1.8 m

**Approval date:**

20-01-1998

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal consisting of Channel Master 1.8 m single piece front-fed offset antenna, equipped with ERA (compensated) feed system. Polarisation adjustment by rotation of entire antenna around boresight. RF equipment: single thread SierraCom 3100 Ku-Band transceiver with 1, 2, 4 or 8 Watt power amplifier.

**Models Available**

Model 62-18161-40: 1 Watt SSPA  
Model 62-18161-41: 2 Watt SSPA  
Model 62-18161-42: 4 Watt SSPA  
Model 62-18161-43: 8 Watt SSPA

**Maximum Allowed EIRP:**

For digital carriers up to 2.5 MSymbol/s: 56.5 dBW / 40 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

46.5 dBi

**G/T:**

24 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:**

Production discontinued

# Eutelsat s.A. Type Approval Summary Sheet



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**Applicant:**

Channel Master LLC.  
1315 Industrial Park Dr.  
Smithfield, NC 27577  
USA

Tel: + 1 919 989 1701  
Fax: + 1 919 989 2200  
<mailto:pgardner@cmnc.com>

**Certificate:**

EA-V025

**VSAT:**

62-12356-51/52

**Diameter:**

1.2 m

**Revision 2 date:**

24-01-2000

**Revision 3 date:**

18-12-2001

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Channel Master 1.2 m front-fed offset antenna, long focal length, light weight version. Gilat RF-equipment Model AN3422-01.

**Models Available:**

Two models: 62-12356-51 with 0.5 Watt SSPA and 62-12356-52 with 1 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

43.3 dBi (typical)

**G/T:**

21.0 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

---

**Remarks for revision 3 approval:**

The junction block for the feed subsystem has been replaced by a new design Die-Cast Terminal Block and the Az-El Cap Mount has been replaced with a new two piece clamp. Production discontinued.

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Scientific Atlanta  
420 North Wickham Road  
Melbourne, Florida 32935  
USA

Tel: +1 407 2553000  
Fax: +1 407 2593942  
<mailto:nick.restivo@atl.viasat.com>

**Certificate:**

EA-V026

**VSAT:**

SkyRelay 3000-098

**Diameter:**

0.98 m

**Approval date:**

22-10-1998

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Prodelin 0.98 m front-fed offset antenna model 1981. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

**Models Available:**

One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

---

**Tx Gain:**

41.0 dBi (typical)

**G/T:**

17.8 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

No longer valid due to design changes affecting performance.

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Scientific Atlanta  
420 North Wickham Road  
Melbourne, Florida 32935  
USA

Tel: +1 407 2553000  
Fax: +1 407 2593942  
<mailto:nick.restivo@atl.viasat.com>

**Certificate:**

EA-V027

**VSAT:**

SkyRelay 3000-120

**Diameter:**

1.2 m

**Approval date:**

22-10-1998

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Prodelin 1.2 m front-fed offset antenna model 1134. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

**Models Available:**

One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW/4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

42.7 dBi (typical)

**G/T:**

19.6 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

No longer valid due to design changes affecting performance. Only antennas manufactured before 31/12/2004 meet the cross-polarisation discrimination of 30 dB @ -1 dB contour.

**Applicant:**

Scientific Atlanta  
420 North Wickham Road  
Melbourne, Florida 32935  
USA

Tel: +1 407 2553000  
Fax: +1 407 2593942  
<mailto:nick.restivo@atl.viasat.com>

**Certificate:**

EA-V028

**VSAT:**

SkyRelay 3000-180

**Diameter:**

1.8 m

**Approval date:**

22-10-1998

**System Description:**

VSAT terminal based on Prodelin 1.8 m front-fed offset antenna model 1194. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

**Models Available:**

One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

46.5 dBi (typical)

**G/T:**

23.1 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:**

EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Scientific Atlanta  
420 North Wickham Road  
Melbourne, Florida 32935  
USA

Tel: +1 407 2553000  
Fax: +1 407 2593942  
<mailto:nick.restivo@atl.viasat.com>

**Certificate:**

EA-V029

**VSAT:**

SkyRelay 3000-240

**Diameter:**

2.4 m

**Approval date:**

15-12-1998

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**System Description:**

VSAT terminal based on Prodelin 2.4 m front-fed offset antenna model 1244, versions 930, 931 or 933 only. Transmit radio unit Scientific Atlanta Model 6605 with solid state 0.8 Watt SSPA. Receive equipment: LNB either Norsat (4509B or 1210LB) or Nichimen (NJR2154HA or NJR2536S).

**Models Available:**

One basic model with 0.8 Watt SSPA and either PLL or DRO type LNB from Norsat or Nichimen. Optional superhydrophobic coating and anti-icing system.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws<sup>TM</sup>, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

48.8 dBi (typical)

**G/T:**

25.5 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

EIRP adjustment by insertion of fixed waveguide attenuators; minimum step size 2 dB.

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Channel Master International GmbH  
Julius Moser Strasse 13  
75179 Pforzheim  
Germany

Tel: +49 7231 145 570  
Fax: +49 7234 145 5710  
<mailto:m.pfrommer@channel-master-int.com>

**Certificate:**

EA-V030

**VSAT:**

62-12456-53/54

**Diameter:**

1.2 m

**Approval date:**

28-10-1998

**Revision 1 date:**

24-01-2000

**Expiry date:**

14-01-2005

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**System Description:**

VSAT terminal based on Andrew Corporation 1.2 m front-fed offset antenna, long focal length, heavy-duty version. SSE K-STAR RF-equipment.

**Models Available:**

Two models: 62-12456-53 with 2 Watt SSPA and 62-12456-54 with 4 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

43.3 dBi (typical)

**G/T:**

21 dB/K (typical)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

Production discontinued

**Applicant:**

Channel Master LLC  
1315 Industrial Park Dr.  
Smithfield, NC 27577  
USA

Tel: + 1 919 989 1701  
Fax: + 1 919 989 2200  
<mailto:pgardner@cmnc.com>

**Certificate:**

EA-V031

**VSAT:**

62-96052-01  
62-96056-01

**Diameter:**

0.96 m

**Approval date:**

29-10-1999

**Revision 1 date:**

19-05-2000

**Revision 2 date:**

18-12-2001

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on Channel Master 0.96 m front-fed offset antenna, long focal length, light/medium duty version. GILAT RF Tx-equipment.

**Models Available:**

Two models: Light duty mount 62-96052-01 with 0.5 Watt SSPA and medium duty mount 62-96056-01 with either 0.5 or 1 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

41.2 dBi (typical at 14.25 GHz)

**G/T:**

19.4 dB/K (typical at 11.95 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks for revision 2 approval:**

The junction block for the feed subsystem has been replaced by a new design Die-Cast Terminal Block and the Az-El Cap Mount has been replaced with a new two piece clamp. Production discontinued.



**Applicant:**

Paradigm (UK)  
Technology House  
Station Road  
Alton, Hampshire  
GU34 2 PZ  
United Kingdom

Tel: +44 870 902 4000

Fax: +44 870 902 4001

<mailto:sales@paracomm.co.uk>

**Certificate:**

EA-V032

**VSAT:**

Paradigm AnaSat Ku 1600

**Diameter:**

2.4 m

**Approval date:**

20-04-2000

**System Description:**

VSAT terminal based on Prodelin 2.4 m front-fed offset antenna model 1244 version 930, 931 and 933. The transceiver is the AnaSat Ku Band Transceiver, 2, 4, 8 and 16 W with wideband LNC.

**Models Available:**

A standard antenna available with optional Superhydrophobic coating and anti-icing system. The AnaSat Ku Band Transceiver is available with 2, 4, 8, and 16 Watt power amplifier in redundant and single thread configurations.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

49.2 dBi (typical at 14.25 GHz)

**G/T:**

25.3 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

NEC Corporation, Yokohama, Japan  
represented by:  
NEC Benelux  
Antareslaan 65 PO Box 3110  
NL-2132 KC JE Hoofddorp  
The Netherlands

Tel: +31 23 5548 481  
Fax: +31 23 5548 588  
<mailto:alex.zehnder@nl.neceur.com>

**Certificate:**

EA-V033

**VSAT:**

NEXTAR 0.98 m

**Diameter:**

0.98 m

**Approval date:**

31-05-2000

**Expiry date:**

14-01-2005

**System Description:**

VSAT terminal based on single offset Prodelin antenna mod. 1981. Integrated transmit/receive radio unit NEC G3606 with solid state 1 or 2 Watt SSPA. Indoor unit(s) of model D8436 (Nextar IV or V), G3700 (BOD).

**Models Available:**

One basic model with either 1 or 2 Watt SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

40.9 dBi (typical at 14.25 GHz)

**G/T:**

18.3 dB/K (typical at 12.6 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>27 dB within 1 dB contour

**Remarks:**

No longer valid due to design changes affecting performance.

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Wireless Innovation Ltd  
Unit D2 - Churcham Business Park  
Churcham  
Gloucestershire GL2 8AA  
United Kingdom

Tel: +44 08454 66 00 11  
Fax: +44 08717 84 00 11  
<mailto:tony.martin@wi-ltd.net>

**Certificate:**

EA-V034

**VSAT:**

CTL3096

**Diameter:**

0.96 m

**Approval date:**

31-05-2000

---

**System Description:**

VSAT terminal based on Andrew 0.96 m front-fed antenna, long focal length, medium duty version. TSAT AS RF-equipment.

**Models Available:**

One standard configuration medium duty mount 62-96056-01 with 0.5 W RF-unit.

**Maximum Allowed EIRP:**

40 dBW / 4kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Gain:**

41.2 dBi (typical at 14.25 GHz)

**G/T:**

19.7 dB/K (typical at 12.75 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:**

Frequency: 14.00 - 14.25 GHz.

**Applicant:**

Precision Antennas  
Masons Road  
Stratford-upon-Avon  
Warwickshire CV37 9NU  
United Kingdom

Tel: +44 1789 266 131

Fax: +44 1789 298 497

mailto:chriscox@precision-antennas.co.uk

**Certificate:**

EA-V035

**VSAT:**

EOT18KUE/T

**Diameter:**

1.8 m

**Standard:**

M

**Approval date:**

20-06-2000

**System Description:**

VSAT terminal based on Precision Antenna 1.8 Ku band single offset antenna. Metallic main reflector. TSAT AS 0.5 Watt RF equipment.

**Configurations:**

One standard configuration.

**Maximum Allowed EIRP:**

40 dB/W / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

46.4 dBi (typical at 14.25 GHz)

**G/T:**

22.7 dB/K (typical)

**Tx XPD:**

>35 dB within 1 dB contour

**Rx XPD:**

>27 dB within 1 dB contour

**Remarks:**

Frequency: 14.00 - 14.25 GHz.

**Applicant:**

Marconi (ITA)  
SatCom Division  
Viale dell'Industria, 4  
00040 Pomezia (Rome)  
Italy

Tel: +39 06 91091 631  
Fax: +39 06 91091 587  
<mailto:paolo.capodieci@marconiselenia.com>

**Certificate:**

EA-V036

**VSAT:**

DESNET 2000 - 24

**Diameter:**

2.4 m

**Approval date:**

15-09-2000

**System Description:**

VSAT terminal based on Prodelin 2.4 m front-fed offset antenna model 1244 version 930, 931 and 933. The transceiver is the Sierracom Ku Band Transceiver, 2, 4, 8 and 16 W with 2600-3008 LNB.

**Models Available:**

A standard antenna available with optional superhydrophobic coating and anti-icing system. The Sierracom Ku Band Transceiver is available with 2, 4, 8, and 16 Watt power amplifier in single thread configurations.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

49.2 dBi (typical at 14.25 GHz)

**G/T:**

27.0 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Sea Tel Europe  
Orion Industrial Centre - Unit 1  
Wide Lane  
Swaythling  
Southampton SO18 2HJ  
United Kingdom

Tel: +44 2380 671 155  
Fax: +44 2380 671 166  
<mailto:pbroadhurst@seatel.com>

**Certificate:**

EA-V037

**VSAT:**

4996T 7/8 w

**Diameter:**

1.2 m

**Approval date:**

19-12-2001

**System Description:**

VSAT maritime terminal consisting of Sea Tel 1.2 m dual offset Gregorian antenna with single piece fibre-glass radome, with three axis stabilisation platform and a conical scanning tracking. The transceiver is a Ku band CODAN 5900.

**Models Available:**

One standard model 4996 T 7/8w. The CODAN 5900 transceiver is available with 2, 4, 8 and 16 Watt power SSPA.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Gain:**

41.8 dBi (typical)

**G/T:**

20 dB/K (typical)

**Tx XPD:**

>30 dB within 0.2°

**Rx XPD:**

>30 dB within 0.2°

**Remarks:**

Tx frequency band: 13.75 - 14.5 GHz.

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors Cedex 09  
France

Tel: +33 5 65 35 82 20  
Fax: +33 5 65 35 82 52  
<mailto:olivier.dhellemmes@groupe-cahors.com>

**Certificate:**

EA-V038

**VSAT:**

VISIOSAT 90 DR

**Diameter:**

0.9 m

**Approval date:**

19-12-2001

**System Description:**

VSAT terminal based on VISIOSAT 09 m dual offset Gregorian antenna model 0141021, versions 0141020 with OMT VICTORY and 0141019 with OMT INVACOM, LNB included. The transceiver is the Ku TSAT HPA AS 0.5 W.

**Models Available:**

Version 0141019 with OMT INVACOM, LNB included and version 0141020 with OMT VICTORY.

**Maximum Allowed EIRP:**

40 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

40.1 dBi (typical at 14.25 GHz)

**G/T:**

18.1 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Gilat Satellite Networks Ltd  
21 Yegia Kapayim St. Kiryat Arye  
Petah Tikva 49130  
Israel

tel: +972 3 9252 196  
fax: +972 3 9252 985  
mailto:menachema@gilat.com

**Certificate:**

EA-V039

**VSAT:**

Skystar 1.2m

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

09-12-2003

**System Description:**

VSAT terminal based on single offset Prodelin 1.2m antenna model 1132. Gilat 1 W Solid State Amplifier type approved EODU-001 or EODU-002.

**Models available:**

One standard configuration.

**Maximum Allowed EIRP:**

40 dBW / 4 KHz per carrier at the satellite receive contours of -0.5 dB/K EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EURO-BIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-400, issue 9 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.50 GHz

**Tx Gain:**

43.0 dBi (typical at 14.25 GHz)

**G/T:**

20.5 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None



# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

mailto:olivier.dhellemmes@groupe-cahors.com

**Certificate:**

EA-V040

**Antenna:**

75 Rx/Tx ANT  
0141054

**Diameter:**

0.75 m

**Standard:**

M

**Approval date:**

13-01-2004

**System Description:**

VSAT terminal based on VISIOSAT 0.75 m offset front fed antenna T.N. 0141054. The transceiver is the 2 Watt Skyware Radio 1216 L or 1214 S.

**Models Available:**

Two models available: with transceiver KL 1216 L (L-band interface) and KL 1214 S (S-band interface).

**Maximum Allowed EIRP:**

36 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

39 dBi (typical at 14.25 GHz)

**G/T:**

17.0 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>21 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

<mailto:olivier.dhellemmes@groupe-cahors.com>

**Certificate:**

EA-V041

**Antenna:**

90 DR  
0141044

**Diameter:**

0.9 m

**Standard:**

M

**Approval date:**

13-01-2004

**System Description:**

VSAT terminal based on VISIOSAT 0.9 m dual offset Gregorian antenna model T.N. 0141044. The transceiver is the 2 Watt Skyware Radio 1216 L or 1214 S or 1216 EL or 1214 ES.

**Models Available:**

Transceiver KL 1216 L (L-band interface) and KL 1214 S (S-band interface) for the band 14.0-14.5 GHz.

Transceiver KL 1216 EL (L-band interface) and KL 1214 ES (S-band interface) for the band 13.75-14.5 GHz.

**Maximum Allowed EIRP:**

37 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75- 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

40.1 dBi (typical at 14.25 GHz)

**G/T:**

18.2 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.a. Type Approval Summary Sheet



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**Applicant:**

Swe-Dish Satellite Systems AB  
P.O. Box 6495  
113 82 Stockholm  
Sweden

Tel: +46 8 728 50 00  
Fax: +46 8 728 50 50  
<mailto:sales@swe-dish.se>

**Certificate:**

EA-V042

**Antenna:**  
IPT SUITCASE

**Diameter:**  
0.9 x 0.66 m

**Standard:**  
M

**Approval date:**  
12-02-2004

**Revision 1 date:**  
05-07-2004

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**System Description:**

VSAT terminal based on Swe-Dish dual offset Gregorian antenna model IPT Suitcase. The transceiver is the 25 Watt Paradise HPAK-2025B-10.

**Models Available:**

One standard configuration.

**Maximum Allowed EIRP:**

34.5 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

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**Tx Frequency:**

13.75- 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

38.2 dBi (typical at 14.25 GHz)

**G/T:**

19.3 dB/K (typical at 11.00 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:** None

**Applicant:**

Maec-Visiosat  
Z.I. de Regourd, B.P. 22  
46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

mailto:olivier.dhellemmes@groupe-cahors.com

**Certificate:**

EA-V043

**Antenna:**

90 EMIT  
0141095

**Diameter:**

0.9 m

**Standard:**

M

**Approval date:**

23-06-2004

**System Description:**

VSAT terminal based on VISIOSAT 0.9 m overmode feed offset front fed antenna model 0141095. 2 Watt Invacom Radio TUL201 or TUL204, type approved EODU-004, with integrated LNB/OMT/Reject filter SPV 10/20/11/21 SM.

**Models Available:**

Two models available:

TUL201: Constant level (DiSEqC)

TUL204: Fixed Gain (no DiSEqC)

**Maximum Allowed EIRP:**

39 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

40.2 dBi (typical at 14.25 GHz)

**G/T:**

18.4 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>24 dB within 1 dB contour

**Remarks:** None

**Applicant:**

Maec-Visiosat  
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46001 Cahors cedex 09  
France

Tel: +33 5 65 35 82 20

Fax: +33 5 65 35 82 52

<mailto:olivier.dhellemmes@groupe-cahors.com>

**Certificate:**

EA-V044

**Antenna:**

90 EMIT  
0141096

**Diameter:**

0.9 m

**Standard:**

M

**Approval date:**

23-06-2004

**System Description:**

VSAT terminal based on VISIOSAT 0.9 m overmode feed offset front fed antenna model 0141095. 2 Watt Skyware transceiver, 1214S, 1216L or 1226L, type approved EODU-003.

**Models Available:**

Two models available:

1214S: S-band Interface

1216L: L-band interface (LO 9.75/10.6 GHz)

1226L: L-band interface (LO 10/11.3 GHz)

**Maximum Allowed EIRP:**

39 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

40.2 dBi (typical at 14.25 GHz)

**G/T:**

18.4 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>24 dB within 1 dB contour

**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet



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**Applicant:**

Raven Manufacturing Ltd  
Metcalf Drive  
Altham Ind. Est., Altham Accrington  
Lancashire BB5 5TU  
United Kingdom

Tel: +44 (0) 1282 770000  
Fax: +44 (0) 1282 770022  
<mailto:gavincox@raven.co.uk>

**Certificate:**

EA-V045

**Antenna:**

G90 Tx/Rx

**Diameter:**

0.89 x 0.80 m

**Standard:**

M

**Approval date:**

04-10-2004

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**System Description:**

VSAT terminal based on Raven overmode feed offset front fed antenna model G90 Tx/Rx. 2 Watt Invacom Radio TUL201 or TUL204, type approved EODU-004, with Invacom OMT 805013 and LNB/Reject filter SPV 3 SM.

**Models Available:**

Two models available:  
TUL201: Constant level (DiSEqC)  
TUL204: Fixed Gain (no DiSEqC)

**Maximum Allowed EIRP:**

38.2 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EURO-BIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 6 - rev 0, §6.1 refers).

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**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

38.2 dBi (typical at 14.25 GHz)

**G/T:**

22.7 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within 1 dB contour

**Rx XPD:**

>30 dB within 1 dB contour

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**Remarks:** None

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

General Dynamics C4 Systems  
SATCOM Technologies - Prodelin  
1500 Prodelin Drive - Newton NC 28658  
USA

Tel: +1 828 466 1907 / +49 7231 14 55 70  
Fax: +1 828 464 5625 / +49 7231 14 55 710  
mailto:colin.robinson@tripointglobal.com  
mailto:martin.pfrommer@tripointglobal-int.com

**Certificate:**

EA-V046

**Antenna:**

1985

**Diameter:**

0.98 m

**Standard:**

M

**Approval date:**

27-10-2004

**System Description:**

VSAT terminal based on Prodelin overmode feed, offset front fed antenna model 1985. 1 W GILAT ODU type approved EODU-001, EODU-002, with Prodelin OMT and LNB/Reject filter feed subassembly 0800-3458 (6 Pound ODU weight limit) or 0800-3459 (12 Pound ODU weight limit).

**Models Available:**

Three models available:

1985-990 98 cm reflector and 3-Axis tilt (polar) mount

1985-991 98 cm reflector with Hydrophobic Coating and 3-Axis tilt (polar) mount

1985-993 98 cm reflector with 240 V Anti-Icing and 3-Axis tilt (polar) mount

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

41.1 dBi (typical at 14.25 GHz)

**G/T:**

17.2 dB/K (typical at 12.50 GHz)

**Tx XPD:** >30 dB within -1 dB contour

**Rx XPD:** >25 dB within -1 dB contour

**Remarks:**

Adjustment of the crosspolarisation alignment uniquely by rotation of the reflector around the tilt (polar) mount

**Applicant:**

General Dynamics C4 Systems  
SATCOM Technologies - Prodelin  
1500 Prodelin Drive - Newton NC 28658  
USA

Tel: +1 828 466 1907 / +49 7231 14 55 70  
Fax: +1 828 464 5625 / +49 7231 14 55 710  
mailto:colin.robinson@tripointglobal.com  
mailto:martin.pfrommer@tripointglobal-int.com

**Certificate:**

EA-V047

**Antenna:**

1135

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

27-10-2004

**System Description:**

VSAT terminal based on Prodelin overmode feed, offset front fed antenna model 1135. 1 W GILAT ODU type approved EODU-001, EODU-002, with Prodelin OMT and LNB/Reject filter feed subassembly 0800-3461 (6 Pound ODU weight limit) or 0800-3462 (12 Pound ODU weight limit).

**Models Available:**

Three models available:

1135-990 1.2 m reflector and 3-Axis tilt (polar) mount

1135-991 1.2 m reflector with Hydrophobic Coating and 3-Axis tilt (polar) mount

1135-993 1.2 m reflector with 240 V Anti-Icing and 3-Axis tilt (polar) mount

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

43.0 dBi (typical at 14.25 GHz)

**G/T:**

19.0 dB/K (typical at 12.50 GHz)

**Tx XPD:** >30 dB within -1 dB contour

**Rx XPD:** >25 dB within -1 dB contour

**Remarks:**

Adjustment of the crosspolarisation alignment uniquely by rotation of the reflector around the tilt (polar) mount



# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711  
Fax: +1 919 989 2200  
<mailto:peter.gardner@andrew.com>

**Certificate:**

EA-V048

**Antenna:**

62-12356-11

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

07-01-2005

**System Description:**

VSAT terminal based on Andrew 1.2 m front-fed offset antenna, long focal length, Class I version. Gilat RF-TX equipment Model AN3422-01.

**Models Available:**

One model only: Class I 62-12356-11 with either 0.5 or 1 Watt SSPA.

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

43.3 dBi (typical at 14.25 GHz)

**G/T:**

21 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx XPD:**

>30 dB within -1 dB contour

**Remarks:**

The junction block for the feed subsystem is using a Die-Cast Terminal Block. Class I is designed for lightweight ODUs up to 2.3 kg.

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711  
Fax: +1 919 989 2200  
<mailto:peter.gardner@andrew.com>

**Certificate:**

EA-V049

**Antenna:**

62-12456-01

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

07-01-2005

**System Description:**

VSAT terminal based on Andrew 1.2 m front-fed offset antenna, long focal length, Class III version. Gilat RF-TX equipment Model AN3422-01.

**Models Available:**

One model only: Class III 62-12456-01 with either 0.5 Watt or 1 Watt SSPA.

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1™ and 0 dB/K for other HBs™, Ws, SESATs, EUROBIRDS™, e-BIRD™, ATLANTIC BIRDS™ (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

43.3 dBi (typical at 14.25 GHz)

**G/T:**

21 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx XPD:**

>30 dB within -1 dB contour

**Remarks:**

Class III is designed for ODUs up to 11 kg

# Eutelsat s.A. Type Approval Summary Sheet

**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711  
Fax: +1 919 989 2200  
<mailto:peter.gardner@andrew.com>

**Certificate:**

EA-V050

**Antenna:**

62-96052-11  
62-96056-01

**Diameter:**

0.96 m

**Standard:**

M

**Approval date:**

07-01-2005

**System Description:**

VSAT terminal based on Andrew 0.96 m front-fed offset antenna, long focal length, Class I & Class II versions. Gilat RF-TX equipment Model AN3422-01

**Models Available:**

Two models: Class I 62-96052-11 and Class II 62-96056-01 with either 0.5 or 1 Watt SSPA.

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBirds<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

41.2 dBi (typical at 14.25 GHz)

**G/T:**

19.4 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx XPD:**

>30 dB within -1 dB contour

**Remarks:**

The junction block for the feed subsystem is using a Die-Cast Terminal Block  
Class I is designed for ODUs up to 2.3 kg  
Class II is designed for ODUs up to 5.4 kg

# Eutelsat s.a. Type Approval Summary Sheet

**Applicant:**

Andrew Corporation (previously Channel Master LLC)  
1315 Industrial Park Drive  
Smithfield, N.C. 27577  
USA

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**Certificate:**

EA-V051

**Antenna:**

62-12362-01

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

07-01-2005

**System Description:**

VSAT terminal based on Andrew 1.2 m front-fed offset antenna, long focal length, Class II version. Gilat RF-TX equipment Model AN3422-01

**Models Available:**

One model only: Class II 62-12362-01 with 0.5 W or 1 W SSPA.

**Maximum Allowed EIRP:**

40.0 dBW / 4 kHz per carrier at the satellite receive contours of -0.5 dB/K for EUTELSAT-II, HB1<sup>TM</sup> and 0 dB/K for other HBs<sup>TM</sup>, Ws, SESATs, EUROBIRDS<sup>TM</sup>, e-BIRD<sup>TM</sup>, ATLANTIC BIRDS<sup>TM</sup> (EESS-502, issue 8 - rev 0, §6.1 refers).

**Tx Frequency:**

14.00 - 14.50 GHz

**Rx Frequency:**

10.95 - 12.75 GHz

**Tx Gain:**

43.3 dBi (typical at 14.25 GHz)

**G/T:**

21 dB/K (typical at 12.50 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx XPD:**

>30 dB within -1 dB contour

**Remarks:**

The junction block for the feed subsystem is using a Die-Cast Terminal Block. Class II is designed for ODUs up to 5.4 kg.