TYPE APPROVAL

Standard Antennas
Standard VSATs

16 December 2011

eutelsat
communications via satellite

Status: 16 December 2011

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A001	31-07-08 Rev.1	M	Vislink Communications Ltd (T/A Advent Communications) UK	DST150 (ex. SNG140T)	Transportable 4 p. 1.5 m offset front-fed Diamond	1.5 m SNG 47.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A004	31-07-08 Rev.3	M	ERA Technology Ltd UK	15 Ku(S)	Transportable 1 or 4 p. 1.5 m offset front-fed Diamond	1.5 m SNG 52.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A005	31-07-08 Rev.1	M	ERA Technology Ltd UK	10 Ku	Transportable 1 p. 1 m offset front-fed Diamond	1.0 m SNG 48.8 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A006	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	2.4 DMK	Truckmount 1 p. 2.4 m dual offset Gregorian	2.4 m truckmount SNG 53.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A011	31-07-08 Rev.1	M	Vislink Communications Ltd (T/A Advent Communications) UK	Newswift 120 KMA	Transportable 1 p. 1.2 m offset front-fed	1.2 m vehicle or flyaway 45.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A012	31-07-08 Rev.1	M	Vislink Communications Ltd (T/A Advent Communications) UK	Newswift 150 KMA	Transportable 1 p. 1.5 m offset front-fed	1.5 m vehicle or flyaway 49.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A016	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	1.5 m SMK-LT	Transportable 1 p. 1.5 m offset front-fed	1.5 m truckmount SNG 47.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A017	31-07-08 Rev.1	M	ERA Technology Ltd UK	12 Ku Diamond	Transportable 1 p. 1.2 m offset front-fed Diamond	1.2 m SNG 51.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A018	31-07-08 Rev.2	M	Page Europa Italy	825-2020-001	Transportable foldable 4.8 m Cassegrain	4.8 m truckmount 57.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A022	31-07-08 Rev.1	M	ERA Technology Ltd UK	10KuS	Transportable 4 p. 1.0 m offset front-fed Diamond	1.0 m SNG 48.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A032	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	2.4 SMK-LT	Fly Away 3 p. 2.4 m front fed offset mode generator	2.4 m fly away 51.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A037	30-05-08	M	Vertex RSI General Dynamics USA	2.4 SMK-LT 4 ports feed	Fly Away 3 p. 2.4 m	2.4 m fly away 50.9 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A002	03-09-08 Rev.3	M	ASC Signal (previously Andrew Corporation) USA	ES37(MPJ)K-124W ES37-124WS	Fixed 2 p. 3.7 m Gregorian	3.7 m general purpose fixed station 55.0 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers)
EA-A003	31-07-08 Rev.1	M	ASC Signal (previously Andrew Corporation) UK	ESA24K-1	Fixed 1 p. 2.4 m symmetric front-fed	2.4 m fixed digital station 50.5 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A007	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	2.4 DPK	Fixed 1 p. 2.4 m dual offset Gregorian	2.4 m fixed general purpose station 52.6 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A015	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	3.8 meter DPK	Fixed 12 p. 3.8 m dual offset Gregorian	3.8 m fixed general purpose station 54.5 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A023	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	4.8 meter KPK	Fixed 16 p. 4.8 m dual optics Cassegrain	4.8 m fixed general purpose station 55.0 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A030	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	1m SFK-LT	Transportable 6 p. 1.0 m offset front-fed mode generator feed	1.0 m low-medium bit rates 44.1 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A024	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	4.8 meter KPC	Fixed 16 p. 4.8 m dual optics Cassegrain	4.8 m fixed general purpose station 59.8 dBW / 40kHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers)
EA-A031	31-07-08 Rev.1	M	Vertex RSI General Dynamics USA	2.4 SMC-LT	Fly Away 3 p. 2.4 m front fed offset mode generator	2.4 m fly away 54.1 dBW / 40kHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers)
EA-A036	30-05-08	M	Vertex RSI General Dynamics USA	2.4 SMC-LT 4 ports feed	Fly Away 3 p. 2.4 m	2.4 m fly away 54.7 dBW / 40kHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A019	31-07-08 Rev.2	M	Maec-Visiosat France	75 Rx / Tx ANT 0141051, 0141052 or 0141053	Single piece 0.75 m offset	0.75 m fixed broadband interactive antenna 38.5 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A020	31-07-08 Rev.1	M	Patriot Antenna Systems USA	TXEUT-120KUDO	Fixed single piece1.2 m dual optics offset Gregorian	1.2 m fixed for VSAT applications 43.3 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A025	31-07-08 Rev.1	M	Maec-Visiosat France	90 DR 0141020 0141027 0141011	Visiosat 0.9 m dual offset Gregorian	0.9 m fixed broadband interactive antenna 39.1 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A028	31-07-08 Rev.1	M	Maec-Visiosat France	120 DR 0141124 0141125	Visiosat 1.2 m dual offset Gregorian	1.2 m fixed broadband interactive antenna 44.7 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-A029	31-07-08 Rev.1	M	Maec-Visiosat France	120 EMIT 0141115 0141116	Visiosat 1.2 m overmode feed offset front-fed	1.2 m fixed broadband interactive antenna 42.8 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers)

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

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Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A033	02-10-08 Rev.2	M	Orbit Israel	OrSat AL -7103-Ku Mk II	3 axis stabilised single p. 1.15 m dual optics Gregorian	1.15 m antenna with single piece foam or honeycomb radome 39.3 or 41.3 ** dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

** Applies to the configuration using the Orbit Integrated RF front-end

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V056	17-05-11 Rev. 1	Mitsubishi Electric Corp. Japan	Ku Mate	Mitsubishi 1.0 m ring focus gregorian	BUC 8 Watt NJRC model NJT5118NT	1.0 m	18.4 dB/K	39.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V058	08-12-10	Cobham SATCOM, Sea Tel Products USA	5009 StdM Mk2	Sea Tel Products 1.2 m 1.68 m radome	BUC 8 Watt CODAN model 6908-WE-48EX-CE	1.2 m	19.3 dB/K	40.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V059	16-12-11	Mitsubishi Electric Corp. Japan	SX 5410 Ku Mate	Mitsubishi 1.2 m ring focus	BUC 8 Watt NJRC model NJT5118NTME	1.2 m	20.5 dB/K	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers) 38.3 dBW / 40 kHz for satellite orbital separation $\geq$ 1.5° 41.4 dBW / 40 kHz for satellite orbital separation $\geq$ 2°

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

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V013	31-07-08 Rev.1	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	43.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V038	31-07-08 Rev.1	Maec-Visiosat France	Visiosat 90 DR	0.90 m dual offset Gregorian	TSAT AS 0.5 Watt	0.9 m	18.1 dB/K	42.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V040	31-07-08 Rev.1	Maec-Visiosat France	75 Rx/Tx ANT 0141054	Visiosat 0.75 m offset	Skyware Radio 1216 L or 1214 S 2 Watt (EODU-003)	0.75 m	17.0 dB/K	38.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V041	31-07-08 Rev.1	Maec-Visiosat France	90 DR 0141044	Visiosat 0.9 m dual offset Gregorian	Skyware Radio 1216 L,1214 S, 1216 EL or 1214 ES 2 Watt (EODU-003)	0.9 m	18.2 dB/K	42.1 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V042	31-07-08 Rev.2	Rockwell Collins Sweden AB (previously Swe-Dish Satellite Systems AB) Sweden	IPT SUITCASE	Rockwell Collins 0.9 m dual offset Gregorian	35 Watt CPI SSPA	0.9 x 0.66 m	19.3 dB/K	36.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V043	31-07-08 Rev.1	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	42.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V044	31-07-08 Rev.1	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	42.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V045	31-03-09 Rev.2	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	18.0 dB/K	40.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V046	31-07-08 Rev.1	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	43.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V052	31-07-08 Rev.1	Tele System Electronic SpA Italy	11026001 EL980X700	Tele System 0.83 m offset front-fed	Skyware Radio 1226 L, 1216 L, 1214 S or 1212 L 2 Watt (EODU-003)	0.83 m	20.0 dB/K	40.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

Eutelsat Type Approval

VSAT's = 1.2 meter ∅

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V014	31-07-08 Rev.1	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	45.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V047	31-07-08 Rev.1	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	45.9 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V053	31-07-08 Rev.1	Maec-Visiosat France	120 DR 0141126	Visiosat 1.2 m dual offset Gregorian	Skyware transceiver 1116L - 1 Watt 1214S, 1212L, 1216L or 1226L 2 Watt (EODU-003) 1416L - 4 Watt	1.2 m	20.8 dB/K	44.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V054	20-03-08	ASC Signal (previously Andrew Corporation) USA	1.2 m RxTx Class I MIL-12QDKU-1	ASC 1 p. 1.2 m Class I offset front-fed	30 W ND Satcom RFT 5000 Ku-Band Invacom SPV-30 SM LNB	1.2 m	21.5 dB/K	42.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V055	21-10-08	ASC Signal (previously Andrew Corporation) USA	1.2 m RxTx Class I Type 125	ASC 1 p. 1.2 m Class I offset front-fed	1.5 W or 3 W XR 1000 series transceivers with integrated OMT, filter and LNB.	1.2 m	21.3 dB/K	44.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V057	01-06-10	Rockwell Collins Sweden AB (previously Swe-Dish Satellite Systems AB) Sweden	0.83 m X 1.2 m RxTx CCT 120-1 CCT 120-4	1.2 m dual offset Gregorian 1p. solid 4p. segmented	50 W CPI model 705543-K1314-050SA-030 PLL LNB NJR 2536SC	0.83 x 1.2 m	21.5 dB/K	41.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

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Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V032	31-07-08 Rev.1	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	37.0 dBW / 4 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)
EA-V036	31-07-08 Rev.1	Selex Communications S.p.A. 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	37.0 dBW / 4 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:
Vislink Communications Ltd (T/A Advent Communications)
Nashleigh Hill
Chesham
Bucks, HP5 3HE
United Kingdom

Tel: +44 1494 774 400
Fax: +44 1494 791 127
mailto: adove@adventcomms.com and sales@adventcomms.com

Certificate:
EA-A001

Antenna:
DST150
(ex. SNG140T)

Diameter:
1.5 m

Standard:
M

Approval date:
20-04-1995

Revision 1 date :
31-07-2008

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:
47.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

ASC Signal Corporation
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA

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Fax: +1 919 329 8701
mailto : fred.vinezeano@ascsignal.com (USA)
mailto : raymond.gree@ascsignal.com (Europe)

Certificate:
EA-A002

Antenna:
ES37(MPJ)K
ES37

Diameter:
3.7 m

Standard:
M

Approval date:
25-09-1995

Revision 1 date:
14-03-2000
Revision 2 date:
31-07-2008
Revision 3 date:
03-09-2008

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 + 2LPK-37-W
Manual mount	:	ES37PK-1 + 2LPK-37-W
Motorisable mount, manual jacks	:	ES37MPK-1 + 2LPK-37-W
Motorisable mount with E-motors	:	ES37MPJK-1 + 2LPK-37-W

Maximum Allowed EIRP:
55.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

ASC Signal (previously Andrew Corporation)
The Avenue Lochgelly Fife
Lochgelly, KY5 9HG Scotland
United Kingdom

Tel: +44 1592 780 561
Fax: +44 1592 782 380
mailto: David.Geen@ascsignal.com
peter.gardner@ascsignal.com

Certificate:
EA-A003

Antenna:
ESA24K-1

Diameter:
2.4 m

Standard:
M

Approval date:
09-01-1996

Revision 1 date:
31-07-2008

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:
50.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

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

Tel: +44 1372 367 033
Fax: +44 1372 367 138
mailto: vlad.stoiljkovic@era.co.uk

Certificate:
EA-A004

Antenna:
15Ku(S)

Diameter:
1.5 m

Standard:
M

Approval date:
24-01-1996

Revision 1 date:
24-01-1996

Revision 2 date:
20-12-2001

Revision 3 date:
31-07-2008

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:
52.0 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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° cone

Rx XPD:
>25 dB within 0.2° cone

Remarks:
F01: Feed chain with rotating joint
F02: Fixed feed chain, rotation of antenna for polarisation adjustment.

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

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

Tel: +44 1372 367 033
Fax: +44 1372 367 138
mailto: vlad.stoiljkovic@era.co.uk

Certificate:
EA-A005

Antenna:
10Ku

Diameter:
1.0 m

Standard:
M

Approval date:
10-03-1997

Revision date:
31-07-2008

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. dsfgh

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:
48.8 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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 Type Approval Summary Sheet

Applicant:

Vertex RSI.
General Dynamics C4 Systems
2600 North Longview Street
Kilgore TX 75662
United States

Tel: +1 903 988 6107
Fax: +1 903 988 6867
Mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A006

Antenna:
2.4 DMK

Diameter:
2.4 m.

Standard:
M

Approval date:
10-12-1997

Revision 1 date:
31-07-2008

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:
53.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Vertex RSI.
General Dynamics C4 Systems
2600 North Longview Street
Kilgore TX 75662
United States

Tel: +1 903 988 6107
Fax: +1 903 988 6867
Mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A007

Antenna:
2.4 DPK

Diameter:
2.4 m

Standard:
M

Approval date:
10-12-1997

Revision 1 date:
31-07-2008

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:
52.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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:
Vislink Communications Ltd (T/A Advent Communications)
Nashleigh Hill
Chesham
Bucks, HP5 3HE
United Kingdom

Tel: +44 1494 774 400
Fax: +44 1494 791 127
mailto: adove@adventcomms.com and sales@adventcomms.com

Certificate:
EA-A011

Antenna:
Newswift 120 KMA

Diameter:
1.2 m

Standard:
M

Approval date:
22-10-1999

Revision 1 date:
31-07-2008

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:
45.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:
Vislink Communications Ltd (T/A Advent Communications)
Nashleigh Hill
Chesham
Bucks, HP5 3HE
United Kingdom

Tel: +44 1494 774 400
Fax: +44 1494 791 127
mailto: adove@adventcomms.com and sales@adventcomms.com

Certificate:
EA-A012

Antenna:
Newswift 150 KMA

Diameter:
1.5 m

Standard:
M

Approval date:
22-10-1999

Revision 1 date:
31-07-2008

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:
49.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Vertex RSI
General Dynamics C4 Systems
2600 North Longview Street
Kilgore, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 988 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A015

Antenna:
3.8 - meter - DPK

Diameter:
3.8 m

Standard:
M

Approval date:
12-01-2001

Revision 1 date:
31-07-2008

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:
54.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Vertex RSI
General Dynamics C4 Systems
2600 North Longview Street
Kilgore, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 988 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A016

Antenna:
1.5 – meter SMK-LT

Diameter:
1.5 m

Standard:
M

Approval date:
12-01-2001

Revision 1 date:
31-07-2008

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:
47.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

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

Tel: +44 1372 367 033
Fax: +44 1372 367 138
mailto: vlad.stoiljkovic@era.co.uk

Certificate:
EA-A017

Antenna:
12Ku Diamond

Diameter:
1.2 m

Standard:
M

Approval date:
22-12-2000

Revision 1 date:
31-07-2008

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:
51.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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.

Eutelsat S.A. Type Approval Summary Sheet

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:
M

Approval date:
18-10-2002

Revision 1 date:
21-02-2003

Revision 2 date:
31-07-2008

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:
57.4 dBW / 40 KHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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 spinnig 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 color 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

Revision 2 date:
31-07-2008

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 ASC Signal OMT and AZ EL mount with polarisation adjustment.

Maximum Allowed EIRP:
38.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
13.75 - 14.50 GHz (OMT Victory)
14.00 - 14.50 GHz (OMT Invacom and ASC Signal)

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

Eutelsat Type Approval Summary Sheet

Applicant:

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

Tel: +1 517 629 5990
Fax: +1 517 629 6690
mailto: jrobinson@sepatriot.com

Certificate:
EA-A020

Antenna:
TXEUT-120KUDO

Diameter:
1.2 m

Standard:
M

Approval date:
02-06-2003

Revision 1 date:
31-07-2008

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:

43.3 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat Type Approval Summary Sheet

Applicant:

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

tel: +44 1372 367033
fax: +44 1372 367138
mailto: vlad.stoiljkovic@era.co.uk

Certificate:
EA-A022

Antenna:
10KuS

Diameter:
1.0 m

Standard:
M

Approval date:
24-10-2003

Revision 1 date:
31-07-2008

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:
48.7 dBW/40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat Type Approval Summary Sheet

Applicant:

Vertex RSI
General Dynamics C4 Systems
2600 North Longview Street
Kilgore, TX 75662
USA

tel: +1 903 988 6107
fax: +1 903 988 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A023

Antenna:
4.8m KPK

Diameter:
4.8 m

Standard:
M

Approval date:
10-11-2003

Revision 1 date:
31-07-2008

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:
55.0 dBW/40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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 Type Approval Summary Sheet

Applicant:

Vertex RSI
General Dynamics C4 Systems
2600 North Longview Street
Kilgore, TX 75662
USA

tel: +1 903 988 6107
fax: +1 903 988 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A024

Antenna:
4.8m KPC

Diameter:
4.8 m

Standard:
M

Approval date:
10-11-2003

Revision 1 date:
31-07-2008

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:
59.8 dBW / 40 kHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers).

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

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-A025

Antenna:
90 DR
0141020
0141027
0141011

Diameter:
0.9 m

Standard:
M

Approval date:
13-01-2004

Revision 1 date:
31-07-2008

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 ASC Signal.

Models Available:
0141020 with OMT VICTORY, 0141027 with OMT INVACOM, LNB included and 0141011 with OMT ASC Signal.

Maximum Allowed EIRP:
39.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz (OMT Victory)
14.00 - 14.50 GHz (OMT Invacom and ASC Signal)

Tx Gain:
40.1 dBi (typical at 14.25 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx Frequency:
10.70 - 12.75 GHz

Rx Gain:
38.7 dBi (typical at 12.50 GHz)

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-A028

Antenna:
120 DR
0141124
0141125

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2006

Revision 1 date:
31-07-2008

System Description:
Broadband Interactive Earth Station based on VISIOSAT 1.2 m dual offset gregorian antenna versions 0141124 with OMT APEXSAT, 0141125 with OMT INVACOM, LNB included.

Models Available:
0141124 with OMT APEXSAT, 0141125 with OMT INVACOM, LNB included.

Maximum Allowed EIRP:
44.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz (OMT Apexsat)
14.00 - 14.50 GHz (OMT Invacom)

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
42.7 dBi (typical at 14.25 GHz)

Rx Gain:
41.4 dBi (typical at 12.50 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks:
Expected G/T at 11.50 GHz: 20.9 dB/K when using Apexsat OMT and Zinwell LNB.
Saturated EIRP measured at 14.05 GHz: 48.7 dBW when using Apexsat OMT and a 3 W NJRC BUC.

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-A029

Antenna:
120 EMIT
0141115
0141116

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2006

Revision 1 date:
31-07-2008

System Description:
Broadband Interactive Earth Station based on VISIOSAT 1.2 m overmode feed offset front fed models 0141115 with OMT INVACOM LNB included, 0141116 with OMT APEXSAT.

Models Available:
0141115 with OMT INVACOM LNB included., 0141116 with OMT APEXSAT.

Maximum Allowed EIRP:
42.8 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
14.00 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
42.8 dBi (typical at 14.25 GHz)

Rx Gain:
41.4 dBi (typical at 12.50 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>24 dB within 1 dB contour

Remarks:
Expected G/T at 11.50 GHz: 20.6 dB/K when using Apexsat OMT and Zinwell LNB.
Saturated EIRP measured at 14.05 GHz: 48.9 dBW when using Apexsat OMT and a 3 W NJRC BUC

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

VERTEX RSI
General Dynamics C4 Systems
2600 N. Longview Street
KILGORE, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 984 6867
mailto : alan.pollard@gdsatcom.com

Certificate:
EA-A030

Antenna:
1 m SFK-LT

Diameter:
1.0 m

Standard:
M

Approval date:
21-06-2006

Revision 1 date:
31-07-2008

System Description:
Transportable Backpack Earth Station based on a six petals carbon fiber molded 1 meter SFK VERTEX RSI antenna with mode generator two port feed and rotary joint. Suitable for low-medium bit rate applications.

Models Available:
Globetrekker

Maximum Allowed EIRP:

44.1 dBW/40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
42.1 dBi (typical at 14.25 GHz)

Rx Gain:
40.5 dBi (typical at 11.70 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>25 dB within 1 dB contour

Remarks:
To be operated for wind speeds up to 50 Km/h

Manual antenna pointing only

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

VERTEX RSI
General Dynamics C4 Systems
2600 N. Longview Street
KILGORE, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 984 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A031

Antenna:
2.4 SMC-LT

Diameter:
2.4 m

Standard:
M

Approval date:
21-06-2006

Revision 1 date:
31-07-2008

System Description:
Transportable Fly away Earth Station based on a three pieces 2.4 meter VERTEX RSI carbon fiber molded antenna with mode generator two ports feed and rotary joint. Suitable for digital transmission up to highest bit rate. Circular Polarization.

Models Available:
2.4 SMC-LT

Maximum Allowed EIRP density:
54.1 dBW/40 KHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers).

Tx Frequency:
3.625 – 4.200 GHz

Rx Frequency:
5.850 – 6.425 GHz

Tx Gain:
42.1 dBi (typical at 6.138 GHz)

Rx Gain:
38.1 dBi (typical at 4.00 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>35 dB within 1 dB contour

Remarks:
The de-ice option has not been validated for the scope of the type approval

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

VERTEX RSI
General Dynamics C4 Systems
2600 N. Longview Street
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USA

Tel: +1 903 988 6107
Fax: +1 903 984 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A032

Antenna:
2.4 SMK-LT

Diameter:
2.4 m

Standard:
M

Approval date:
21-06-2006

Revision 1 date:
31-07-2008

System Description:
Transportable Fly away Earth Station based on a three pieces 2.4 meter VERTEX RSI carbon fiber molded antenna with mode generator two ports feed and rotary joint. Suitable for digital transmission up to highest bit rate.

Models Available:
2.4 SMK-LT

Maximum Allowed EIRP:
51.1 dBW / 40kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
49.1 dBi (typical at 14.25 GHz)

Rx Gain:
47.4 dBi (typical at 11.70 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>27 dB within 1 dB contour

Remarks:
The de-ice option has not been validated for the scope of the type approval

Maximum operating wind speed:72 Km/h

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

ORBIT
5b Hatzoran St.
P.O. Box 8657 NETANYA
42504 ISRAEL

Tel: +972 9 89262739
Fax: +972 9 892 2820
mailto : guy@orbit-ltd.co.il

Certificate:
EA-A033

Antenna:
OrSat AL-7103-Ku Mk II

Diameter:
1.15m

Standard:
M

Approval date:
06-04-2007

Revision 2 date:
02-10-2008

System Description:
Stabilised maritime antenna consisting of OrSat 1.15m dual offset Gregorian composite material antenna with single piece foam or honeycomb radome, with three axis stabilization platform and a conical scanning tracking. Can support transceivers 4 W, 8 W, 16 and 20 W rating.

Models Available:
AL-7103-Ku-Mk II with two standard configurations: with ERA OMT and Tx Reject Filter or Orbit Integrated RF front-end.

Maximum Allowed EIRP:

39.3 or 41.3* dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.95 - 12.75 GHz

Tx Gain:
42.3 dBi (typical at 14.25 GHz)

Rx Gain:
41.0 or 40.2* dBi (typical at 12.50 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx XPD:
>35 dB within -1 dB contour

Remarks:
1
Operations of the tracking has been tested on a Sea Simulator.
RMS pointing error 0.12° at 3σ for the following ship maximum velocity and acceleration:
Roll =11°/sec and 4°/sec²
Pitch =18°/sec and 19°/sec²
Yaw = 5°/sec and 0.3°/sec²

2
(*) applies to the configuration using the Orbit Integrated RF front-end

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

VERTEX RSI
General Dynamics C4 Systems
2600 N. Longview Street
KILGORE, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 984 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A036

Antenna:
2.4 SMC-LT
Four ports feed

Diameter:
2.4 m

Standard:
M

Approval date:
30-05-2008

System Description:
Transportable Fly away Earth Station based on a three pieces 2.4 meter VERTEX RSI carbon fiber molded antenna with mode generator four ports feed and rotary joint. Suitable for digital transmission up to highest bit rate. Circular Polarization.

Models Available:
2.4 SMC-LT 4 ports feed

Maximum Allowed EIRP density:

54.7 dBW/40kHz for digital carriers transmitted anywhere in the satellite receive contour of the C-band capacity of the Eutelsat satellites (EESS 502 § 6.1 refers).

Tx Frequency:
5.850 – 6.425 GHz

Tx Gain:
41.7 dBi (typical at 6.138 GHz)

Tx XPD:
>32 dB within 1 dB contour

Rx Frequency:
3.625 – 4.200 GHz

Rx Gain:
37.2 dBi (typical at 3.625 GHz)

Rx XPD:
>31 dB within 1 dB contour

Remarks:
The de-ice option has not been validated for the scope of the type approval

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

VERTEX RSI
General Dynamics C4 Systems
2600 N. Longview Street
KILGORE, TX 75662
USA

Tel: +1 903 988 6107
Fax: +1 903 984 6867
mailto: alan.pollard@gdsatcom.com

Certificate:
EA-A037

Antenna:
2.4 SMK-LT
4-ports feed

Diameter:
2.4 m

Standard:
M

Approval date:
30-05-2008

System Description:
Transportable Fly away Earth Station based on a three pieces 2.4 meter VERTEX RSI carbon fiber molded antenna with mode generator four ports feed and rotary joint. Suitable for digital transmission up to highest bit rate.

Models Available:

2.4 SMK-LT 4 ports feed

Maximum Allowed EIRP:

50.9 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
48.9 dBi (typical at 14.25 GHz)

Rx Gain:
47.6 dBi (typical at 12.5 GHz)

Tx XPD:
>35 dB within 1 dB contour

Rx XPD:
>23 dB within 1 dB contour

Remarks:
The de-ice option has not been validated for the scope of the type approval

Maximum operating wind speed:72 Km/h

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

TSAT A.S.
Smedsvingen 4 B
1395 Hvalstad
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

Revision 1 date:
31-07-2008

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:
43.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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.
Smedsvingen 4 B
1395 Hvalstad
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

Revision 1 date:
31-07-2008

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:
45.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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:

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

Tel: +44 1420 88199
Fax: +44 1420 88842
mailto : sales@paracomm.co.uk

Certificate:
EA-V032

VSAT:
Paradigm AnaSat Ku 1600

Diameter:
2.4 m

Approval date:
20-04-2000

Revision 1 date:
31-07-2008

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:

37.0 dBW / 4 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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 Type Approval Summary Sheet

Applicant:

Selex Communications S.p.A.
Via dell'Industria, 4
00040 Pomezia - Rome (Italy)

Phone.: +39 06 91091 631
Fax: +39 06 91091 389
mailto : paolo.capodieci@selex-comms.com

Certificate:
EA-V036

VSAT:
DESNET 2000 - 24

Diameter:
2.4 m.

Approval date:
15-09-2000

Revision 1 date:
31-07-2008

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:
37.0 dBW / 4 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
14.00 – 14.50 GHz

Rx Frequency:
10.95 – 12.75 GHz

Tx Gain:
49.2 dBi at 14.25 GHz (typical)

G/T:
27.0 dB/K at 12.50 GHz (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:

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

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on VISIOSAT 0.9 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:
42.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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:

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

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on VISIOSAT 0.9m 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:
42.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

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

Revision 1 date:
31-07-2008

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:
38.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Rockwell Collins Sweden AB
Torggatan 15, 3rd Floor, PO Box 6075
SE-171 06 Solna
Sweden

Tel: +46 8 728 50 00
Fax: +46 8 728 50 44
E-mail: swetac@rockwellcollins.com

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

Revision 2 date:
31-07-2008

System Description:

VSAT terminal based on Rockwell Collins (formerly Swe-Dish) dual offset gregorian antenna model IPT Suitcase. The transceiver is the 35 Watt CPI SSPA.

Models Available:

One standard configuration.

Maximum Allowed EIRP:
36.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

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:
18.4 dB/K (typical at 12.50 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks: None

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Rockwell Collins Sweden AB
Torggatan 15, 3rd Floor, PO Box 6075
SE-171 06 Solna
Sweden

Tel: +46 8 728 50 00
Fax: +46 8 728 50 44
E-mail: swetac@rockwellcollins.com

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

Revision 2 date:
31-07-2008

System Description:

VSAT terminal based on Rockwell Collins (formerly Swe-Dish) dual offset gregorian antenna model IPT Suitcase. The transceiver is the 35 Watt CPI SSPA.

Models Available:

One standard configuration.

Maximum Allowed EIRP:
36.4 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

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:
18.4 dB/K (typical at 12.50 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>30 dB within 1 dB contour

Remarks: 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-V043

Antenna:
90 EMIT
0141095

Diameter:
0.9 m

Standard:
M

Approval date:
23-06-2004

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on VISIOSAT 0.9m 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:
42.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

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-V044

Antenna:
90 EMIT
0141096

Diameter:
0.9 m

Standard:
M

Approval date:
23-06-2004

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on VISIOSAT 0.9m 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:
42.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

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

Revision 1 date:
31-07-2008

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 30SM.

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

Maximum Allowed EIRP:
40.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

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

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@gdsatcom.com
martin.pfrommer@gdsatcom.com

Certificate:
EA-V046

Antenna:
1985

Diameter:
0.98 m

Standard:
M

Approval date:
27-10-2004

Revision 1 date:
31-07-2008

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:
43.1 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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

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@gdsatcom.com
martin.pfrommer@gdsatcom.com

Certificate:
EA-V047

Antenna:
1135

Diameter:
1.2 m

Standard:
M

Approval date:
27-10-2004

Revision 1 date:
31-07-2008

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:
45.9 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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:

MITSUBISHI ELECTRIC CORPORATION
2-7-3, Marunouchi Chiyoda-ku
Tokyo 100-8310
Japan

Tel : +81 3 3218 3346
Fax : +81 3 3218 9492
Website : http://global.mitsubishielectric.com

Certificate:
EA-V056

Antenna:
Ku Mate

Diameter:
1 m

Standard:
M

Approval date:
21-12-2009

System Description:
Stabilised maritime antenna consisting of 1 m ring focus Gregorian aluminum antenna with fiberglass radome, with three axis stabilization platform and polarization axis and a conical scanning tracking. BUC 8 W NJRC model NJT5118NT, LNA Mitsubishi RB255882-G03.

Models Available:
Standard configuration: 14.00-14.50 GHz linear orthogonal polarisation
Option 1 : Tx and Rx parallel.
Option 2 : 13.75 GHz extended band
Option 3 : Tx and Rx parallel and 13.75 GHz extended band

Maximum Allowed EIRP:

39.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
40.9 dBi (typical at 14.25 GHz)

Rx Gain:
39.8 dBi (typical at 12.75 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx XPD:
>30 dB within -1 dB contour

Remarks:
1
Operations of the tracking has been tested on a Sea Simulator, with rms pointing error <0.2°.

Roll	=+/-30°/7sec and 24.2°/sec²
Pitch	=+/-10°/5sec and 15.8°/sec²
Yaw	=+/-4°/14sec and 0.8°/sec²

2
Measured G/T= 18.4 dB/K @ 12.5 GHz, 30° Elevation

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

TELE System Electronic Srl
Via S.Benedetto 14/M
36050 Bressanvido (VI)
Italy

Tel.: +39 0444 460800
Fax.: +39 0444 460810
mailto: spiovesan@telesystem.it
mcenzon@telesystem.it

Certificate:
EA-V052

Antenna:
11026001 EL980X700

Equivalent Diameter:
0.83 m

Standard:
M

Approval date:
06-05-2005

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on TeleSystem 0.83 m offset front fed antenna, model 11026001 and compensated feed, model 58210001. 2 W Skyware transceiver, model 1226L, 1216L, 1214S or 1212L type approved EODU-003.

Models Available:
11026001 PARAB. BIDIREZIONALE EL980X700

Maximum Allowed EIRP:
40.0 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
14.00 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
40 dBi (typical at 14.25 GHz)

G/T:
20.0 dB/K (average 11.0 – 12.7 GHz)

Tx XPD:
>30 dB within 1 dB contour

Rx XPD:
>24 dB within 1 dB contour

Saturated EIRP:
Better than 43 dBW (measured at 14.00 GHz)

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-V053

Antenna:
120 DR
0141126

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2006

Revision 1 date:
31-07-2008

System Description:
VSAT terminal based on VISIOSAT 1.2 m dual offset gregorian antenna model 0141126.
1 Watt Skyware transceiver 1116 L.
2 Watt Skyware transceiver 1214 S, 1212 L, 1216 L or 1226 L, type approved EODU-003.
4 Watt Skyware transceiver 1416 L.

Models Available:
1214 S: S-band Interface
1212 L: L-band interface (LO 9.75/10.25 GHz)
1116 L and 1216 L: L-band interface (LO 9.75/10.6 GHz)
1226 L: L-band interface (LO 10/11.3 GHz)
1416 L: L-band interface (LO 10/10.6 GHz)

Maximum Allowed EIRP:
44.2 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 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:
41.4 dBi (typical at 12.50 GHz)

Tx XPD:
>30 dB within 1 dB contour

G/T:
20.8 dBK (measured at 11.50 GHz)

Rx XPD:
>30 dB within 1 dB contour

Saturated EIRP: 49.1 dBW measured at 14.05 GHz

Remarks: None

Eutelsat Type Approval Summary Sheet

Applicant:

ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA

Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-V054

Antenna:
1.2 m RXTx Class I
MIL-12QDKU-1

Diameter:
1.2 m

Standard:
M

Approval date:
20-03-2008

System Description:
Quick Deploy VSAT terminal for low and medium rate digital traffic. Front fed offset configuration, feed with mode generator and rotary joint. Single piece 1.2 m SMC reflector. Two port die-cast OMT. Az/El Mount with steel boom arm. Collapsible tripod. 30 W ND Satcom RFT 5000 KU-BAND, Invacom SPV-30 SM LNB.

Configurations:
One standard configuration type MIL-12QDKU-1 with mode generatore and rotary joint.

Maximum Allowed EIRP:
42.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers).

Tx Frequency:
14.00 – 14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
43.8 dBi (typical at 14.25 GHz)

G/T:
21.5 dB/K (typical at 11.70 GHz)

Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx XPD:
>26 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operating with an integrated transceiver assembly (or BUC+LNB assemblies) weighting a maximum of 1.7 Kg.

To be operated for maximum wind speeds of up to 50 Km/h.

Eutelsat Type Approval Summary Sheet

Applicant:

ASC Signal
(previously Andrew Corporation)
620 North Greenfield Parkway,
Garner, N.C. 27529
USA

Tel: +1 919 329 8721
Fax: +1 919 329 8701
mailto: peter.gardner@ascsignal.com

Certificate:
EA-V055

Antenna:
1.2 m RXTx Class I
Type 125

Diameter:
1.2 m

Standard:
M

Approval date:
21-10-2008

System Description:
VSAT terminal for low and medium rate digital traffic. Front fed offset configuration, feed with mode generator and rotary joint. Single piece 1.2 m SMC reflector. Az/El Mount with steel boom arm. 1.5 W or 3 W XR 1000 series transceivers with integrated OMT, filter and LNB.

Configurations:
One standard configuration.

Maximum Allowed EIRP:
44.5 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers).

Tx Frequency:
13.75 – 14.50 GHz

Rx Frequency:
10.70-12.75 GHz

Tx Gain:
43.5 dBi (typical at 14.25 GHz)

G/T:
21.3 dB/K (typical at 11.95 GHz, elevation 30°)

Tx XPD:
>30 dB within the mainlobe -1 dB contour

Rx XPD:
>26 dB within the mainlobe -1 dB contour

Remarks:
Class I is designed for operating with an integrated transceiver assembly weighting a maximum of 1.7 Kg.

To be operated for maximum wind speeds of up to 72 Km/h corresponding to a pointing error equal to 0.2°.

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

MITSUBISHI ELECTRIC CORPORATION
2-7-3, Marunouchi Chiyoda-ku
Tokyo 100-8310
Japan

Tel : +81 3 3218 3346
Fax : +81 3 3218 9492
Website : http://global.mitsubishielectric.com

Certificate:
EA-V056

Antenna:
Ku Mate

Diameter:
1 m

Standard:
M

Approval date:
21-12-2009

Revision 1 date:
17-05-2011

System Description:
Stabilised maritime antenna consisting of 1 m ring focus Gregorian aluminum antenna with fiberglass radome, with three axis stabilization platform and polarization axis and a conical scanning tracking. BUC 8 W NJRC model NJT5118NT, LNA Mitsubishi RB256718.

Models Available:
Standard configuration: 14.00-14.50 GHz linear orthogonal polarisation
Option 1 : Tx and Rx parallel.
Option 2 : 13.75 GHz extended band
Option 3 : Tx and Rx parallel and 13.75 GHz extended band

Maximum Allowed EIRP:

39.7 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
40.9 dBi (typical at 14.25 GHz)

Rx Gain:
39.8 dBi (typical at 12.75 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx XPD:
>30 dB within -1 dB contour

Remarks:
1
Operations of the tracking has been tested on a Sea Simulator, with rms pointing error <0.2°.

Roll	=+/-30°/7sec and 24.2°/sec²
Pitch	=+/-10°/5sec and 15.8°/sec²
Yaw	=+/-4°/14sec and 0.8°/sec²

2
Measured G/T= 18.4 dB/K @ 12.5 GHz, 30° Elevation

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

Rockwell Collins Sweden AB
Torggatan 15, 3rd Floor, PO Box 6075
SE-171 06 Solna
Sweden

Tel : +46 8 728 50 00
Fax :+46 8 728-50 44
Website :http://www.rockwellcollins.com
Emailto: swetac@rockwellcollins.com

Certificate:
EA-V057

Antenna:
CCT 120-4
CCT 120-1

Diameter:
0.83x1.2 m

Standard:
M

Approval date:
01-06-2010

Last update:
01-06-2010

System Description:
Antenna consisting of 1.2 m Dual Offset Gregorian Carbon Fibre antenna. SSPA 50 W CPI model 705543-K1314-050SA-030, PLL LNB NJR 2536SC

Models Available:
4 segment antenna (CCT120-4) and solid antenna (CCT120-1)
Standard configuration: 13.75-14.50 GHz linear orthogonal polarization
One option available: Tx and Rx parallel

Maximum Allowed EIRP:

41 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.95 - 12.75 GHz

Tx Gain:
41.9 dBi (typical at 14.25 GHz)

Rx Gain:
41 dBi (typical at 11.70 GHz)

Tx XPD:
>40 dB on axis
>30 dB within -1 dB contour

Rx XPD:
>40 dB on axis
>30 dB within -1 dB contour

Conditions and remarks:
1
Submission on at least a yearly basis of measurement results for at least one production unit
2
Measured G/T= 21.5 dB/K @ 12.5 GHz, 30° Elevation
3
Maximum operating wind speed: 20 m/s

Eutelsat S.A. Type Approval Summary Sheet

Manufacturer:

Cobham SATCOM, Sea Tel Products
4030 Nelson Avenue
CONCORD, CA
94520
USA

Tel: + 1 925 798 7979
Fax:+ 1 925 798 7986
mailto: Timothy.OConnor@cobham.com

Certificate:
EA-V058

Antenna model:
5009 StdM Mk2

Diameter:
1.2 m

Standard:
M

Approval date:
08-12-2010

System Description:
Stabilised maritime antenna – splash feed axi-symmetric cassegrain – feed manufactured by ERA Technology (Cobham Technical Services) - three layers 1.68 m diameter radome manufactured by Ace Composites on Sea Tel design. Three axis stabilization platform with conical scanning tracking.

8 Watt CODAN BUC, referenced as 6908-WE-48EX-CE.

Models Available:
Standard configuration: 13.75-14.50 GHz linear orthogonal polarization.
Option 1 : Tx and Rx parallel.

Maximum Allowed EIRP:

40.6 dBW / 40 kHz for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers).

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
42.4 dBi (typical at 14.25 GHz)

Rx Gain:
41.0 dBi (typical at 12.75 GHz)

Tx XPD:
>30 dB within -1 dB contour
>35 dB within maximum pointing error

Rx XPD:
>30 dB within -1 dB contour
>35 dB within maximum pointing error

Conditions and remarks:
1
Submission on at least a yearly basis of measurement results for at least one production unit.
2
Operations of the tracking has been tested with the antenna (without radome) on a Sea Simulator, with rms pointing error <0.2°.

Roll	= +/-20°/8 sec
Pitch	= +/-4°/8 sec
Yaw	= +/-6°/8 sec

3
Measured G/T= 19.3 dB/K @ 12.50 GHz, 31.2° Elevation.

Eutelsat S.A. Type Approval Summary Sheet

Applicant:

MITSUBISHI ELECTRIC CORPORATION
2-7-3, Marunouchi Chiyoda-ku, Tokyo
100-8310, Japan
Tel : +81-3-3218-3346
Fax : +81-3-3218-9492
Website : http://global.mitsubishielectric.com

Contact point:
Sato.Hiroyuki@ea.mitsubishielectric.co.jp

Certificate:
EA-V059

Antenna:
SX 5410 Ku Mate

Diameter:
1.2 m

Standard:
M

Approval date:
16-12-2011

System Description:
Stabilised maritime antenna equipped with three ports feed (one Tx and two Rx) for the standard configuration and option 3; two ports feed for options 1 and 2, consisting of 1.2 m ring focus aluminum antenna with backfire feedhorn, with 1.57 m sandwich foam radome, with three axis stabilization platform and polarization axis and a conical scanning tracking. BUC 8 W NJRC model NJT5118NTME (Standard) and model NJT5218NTME (Option 2 and 3), LNA Mitsubishi Electric RB256718-G01.

Models Available:
Standard configuration (SX 5410):14.00-14.50 GHz linear orthogonal and parallel polarization.
Option 1 (SX 5400) : Tx and Rx orthogonal.
Option 2 (SX 5420) : 13.75 GHz extended band orthogonal.
Option 3 (SX 5430) : Tx and Rx orthogonal and parallel pol. and 13.75 GHz ext. band.

Maximum Allowed EIRP:
For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):
38.3 dBW / 40 kHz for satellite orbital separations $\geq$ 1.5°.
41.4 dBW / 40 kHz for satellite orbital separations $\geq$ 2°.

Tx Frequency:
13.75 - 14.50 GHz

Rx Frequency:
10.70 - 12.75 GHz

Tx Gain:
41.9 dBi (typical at 14.25 GHz)

Rx Gain:
41.6 dBi (typical at 11.70 GHz)

Tx XPD:
>30 dB within -1 dB contour

Rx XPD:
>28 dB within -1 dB contour

G/T: 20.5 dB/K at 11.70 GHz

Remarks:
1
Operations of the tracking has been tested on a Sea Simulator, with pointing error <0.2°.
Roll = $\pm$ 30°/7 sec.
Pitch = $\pm$ 10°/5 sec.
Yaw = $\pm$ 4°/20 sec.
In case of tracking error >0.2°, the ACU will directly inhibit transmission of the BUC.
2
The type approval tests were performed on three units with radome at the test range of Ofuna, Japan between the 26 September and the 1 October 2011.
3
The worst excess of the EESS masks in the Rx side is equal to 7.2 dB at 1.5°, 10.70 GHz in Elevation V polarization. The service quality in the receive side may be impaired for operations on satellites with less than 2.5° orbital separation from the adjacent one. Nevertheless, these operations may be exceptionally authorized according to a valid transmission plan.