

TYPE APPROVALS

# STANDARD ANTENNAS STANDARD VSAT

10 June 2024



# Table of Contents

EUTELSAT TYPE APPROVAL .....	1
GENERAL .....	4
STANDARD ANTENNAS	
Standard Antennas, SNG .....	5
EA-A011 .....	5
EA-A012 .....	5
EA-A017 .....	5
EA-A032 .....	6
EA-A037 .....	6
Standard Antennas, Fixed General Purpose .....	7
EA-A002 .....	7
EA-A015 .....	7
EA-A023 .....	7
EA-A039 .....	8
C-Band Standard Antennas .....	9
EA-A024 .....	9
EA-A031 .....	9
EA-A036 .....	9
VSATS .....	10
Ku-Band Maritime VSAT .....	10
EA-V056 .....	10
EA-V058 .....	10
EA-V059 .....	10
EA-V060 .....	11
< 1 m .....	12
EA-V061 .....	12
EA-V064 .....	12
1.2 m .....	13
EA-V055 .....	13
EA-V057 .....	13
1.5 m .....	14
TA-FLY-NDS-150-712 .....	14
1.8 m .....	15
EA-V065 .....	15
2.4 m .....	16
EA-V062 .....	16
EA-V066 .....	16
APPLICANT .....	17
KRATOS/ASC Signal .....	17
3.7 m (EA-A002) .....	17
Cobham/Vislink .....	18
1.2 m (EA-A011) .....	18
1.2 m (EA-A017) .....	21

1.2 m (EA-V058) .....	32
1.5 m (EA-A012) .....	19
CPI / Vertex / GD .....	20
2.4 m (EA-A031) .....	24
2.4 m (EA-A032) .....	25
2.4 m (EA-A036) .....	26
2.4 m (EA-A037) .....	27
3.8 m - 2 ports (EA-A015) .....	20
3.8 m - 4 ports (EA-A039) .....	28
4.8 m (EA-A023) .....	22
4.8 m (EA-A024) .....	23
Global Invacom / Skyware Global .....	29
0.96 m (EA-V061) .....	35
0.98 (EA-V064) .....	37
1.2 m (EA-V055) .....	29
1.8 m (EA-V065) .....	38
2.4 m (EA-V062) .....	36
2.4 m (EA-V066) .....	39
Mitsubishi Electric Corporation .....	30
1 m (EA-V056) .....	30
1.2 m (EA-V059) .....	33
1.2 m (EA-V060) .....	34
ND Satcom .....	40
1.5 m (TA-FLY-NDS-150-712) .....	40
Rockwell Collins Sweden AB .....	31
0.83 x 1.2m (EA-V057) .....	31
HISTORICAL SECTION .....	41

## EUTELSAT TYPE APPROVAL

Standard Antennas

Standard VSATs

### GENERAL

This list aims at providing Eutelsat customers with guidance on the selection of the most appropriate earth station equipment to access the Eutelsat capacity.

Any antennas which are regularly deployed on the Eutelsat satellites may be eligible for being included in this list.

The criteria for inclusion are:

- Eutelsat is in possession of three full sets of measured RF electrical characteristics,
- The antenna's RF performance fully meets the Eutelsat requirements, as detailed in the EESS 502 and the ESOG 120, at the Type Approval date,
- There is no known record of operational problems or interference issues related to this antenna.

Inclusion in the list is a decision which pertains uniquely and ultimately to Eutelsat alone.

At any moment a given antenna may be removed from the list, should Eutelsat deem necessary to do so.

For a given antenna, additional RF characteristics not explicitly listed (e.g. other operating frequency bands) can be found at the URL address of the manufacturer datasheet, if available.

### Notes:

- The Type Approvals dated before February 2011 may be subject to a review of the maximum allowed EIRP for the case where the orbital adjacent satellite separation would be less or equal to 2.5°.
- The Type Approvals' validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
- Any change to the Type Approval configuration need to be notified to Eutelsat and may be subject to further tests.
- Transmissions in the 13.75-14.00 GHz frequency band are subject to additional constraints imposed by the Radio Regulations. Antennas with diameters <1.2m are not supposed to operate in the 13.75 -14.00 GHz frequency band.
- This book provides information on the antenna static systems' performance only. This performance shall not be associated with the performance of auto-pointing systems, unless the latter has been duly Characterized.

January 2015

- Some products, listed in this book, have been discontinued and/or the manufacturer's company name has changed. For products that have kept the same reference for several years, we recommend that customers have the manufacturer confirm that the characteristics observed during the Type Approval campaign remain exactly the same today.

June 2024

## Eutelsat Type Approval

## Ku-Band Standard Antennas, SNG

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A011	12-01-15 Rev.2	M	Cobham (previously Vislink International Ltd/ Advent Communications) UK	Newswift 120CF	Transportable 1 p. 1.2 m offset front-fed	1.2 m vehicle or flyaway For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers): 45.4 dBW / 40 KHz for an orbital separation of the adjacent satellite $\geq 2.0^\circ$ , 39.3 dBW / 40 kHz for an orbital separation of the adjacent satellite $\geq 1.5^\circ$
EA-A012	12-01-15 Rev.2	M	Cobham (previously Vislink International Ltd / Advent Communications) UK	Newswift 150 CF	Transportable 1 p. 1.5 m offset front- fed	1.5 m vehicle or flyaway For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers): 49.3 dBW / 40 KHz for an orbital separation of the adjacent satellite $> 2.0^\circ$ , 42.2 dBW / 40 kHz for an orbital separation of the adjacent satellite $> 1.5^\circ$
EA-A017	28-05-13 Rev.2	M	CTS – Cobham Technical Services UK	12 Ku Diamond	Transportable 1 p. 1.2 m offset front- fed Diamond	1.2 m SNG For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers): 48.0 dBW / 40 KHz for an orbital separation of the adjacent satellite $> 3.0^\circ$ , 38.7 dBW / 40 kHz for an orbital separation of the adjacent satellite $> 1.5^\circ$

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

## Eutelsat Type Approval

## Ku-Band Standard Antennas, SNG (Cont'd)

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A032	31-07-08 Rev.1  16-04-24 Note	M	CPI (previously Vertex RSI General Dynamics USA	C240M  (previously 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  16-04-24 Note	M	CPI (previously Vertex RSI General Dynamics USA	C240M  (previously 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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

## Eutelsat Type Approval

## Ku-Band Standard Antennas, Fixed General Purpose

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A002	03-09-08 Rev.3  2021 Note	M	Kratos (previously ASC Signal / Andrew Corporation) USA	ES37(MPJ)K-124W ES37-124WS	Fixed 2 p. & 3 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-A015	03-01-13 Rev.2	M	CPI (previously Vertex RSI General Dynamics) USA	3.80 Meter VXK  3.80 Meter PMK	Fixed 12 p. 3.8 m dual offset Gregorian  Two port feed system	3.8 m fixed general purpose station 55.2 dBW / 40 kHz for satellite orbital separations $\geq 1.5^\circ$ 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  16-04-24 Note	M	CPI (previously 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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

<b>Certif.</b>	<b>Dated</b>	<b>Std</b>	<b>Supplier</b>	<b>Model</b>	<b>Type</b>	<b>Remarks*</b>
EA-A039	03-01-13	M	CPI (previously Vertex RSI General Dynamics) USA	3.80 Meter VXK  3.80 Meter PMK	Fixed 12 p. 3.8 m  dual offset Gregorian  Four port feed system	3.8 m fixed general purpose station 55.0 dBW / 40 kHz for satellite orbital separations ≥ 1.5° for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers)

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

## Eutelsat Type Approval

## C-Band Standard Antennas

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A024	31-07-08 Rev.1  16-04-24 Note	M	CPI (previously 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  16-04-24 Note	M	CPI (previously Vertex RSI General Dynamics) USA	C240M (Previously 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  16-04-24 Note	M	CPI (previously Vertex RSI General Dynamics) USA	C240M (Previously 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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

## Eutelsat Type Approval

## Ku-Band Maritime VSAT's

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	18-11-13 Rev.1	Cobham SATCOM, Sea Tel Products USA	5009 StdM Mk2 5012 StdM	Sea Tel Products 1.2 m  1.68 m radome	BUC Various (NJRC, Codan, Comtech) 4-8-16- 40 Watt with integrated SMW Q- PLL or NJRC LNB.	1.2 m	19.3 dB/K	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  38.0 dBW / 40 kHz for satellite orbital separation ≥ 1.5°  40.6 dBW / 40 kHz for satellite orbital separation ≥ 2°
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 ≥ 1.5°  41.4 dBW / 40 kHz for satellite orbital separation ≥ 2°

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

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V060	15-06-12	Mitsubishi Electric Corp. Japan	MVA060	Mitsubishi 0.62 m ring focus	BUC 8 Watt NJRC model NJT5118NTME	0.62 m	15.0 dB/K (parallel port)  15.5 dB/K (orthogonal port)	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  31.0 dBW / 40 kHz for satellite orbital separation $\geq 1.5^\circ$  32.1 dBW / 40 kHz for satellite orbital separation $\geq 2.5^\circ$  33.2 dBW / 40 kHz for satellite orbital separation $\geq 3^\circ$

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

## Eutelsat Type Approval

## VSAT's $\leq 1$ meter $\emptyset$

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V061	26-08-15	Global Invacom (previously Skyware Global) USA	62-9615401 (Type 965 Class I)	Skyware Global 0.96 m offset front-fed	LFL XPC Feed Horn, Overmode Die Cast Generator module, OMT 1 Transmit Reject Filter with Die Cast Mounting Block.  Designed for installed RF power $\leq 16$ Watt	0.96 m	-	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  42.9 dBW/40 kHz for satellite orbital separations  37.5 dBW/40 kHz for satellite orbital separations $\geq 2.0^\circ$  35.6 dBW/40 kHz for satellite orbital separations $\geq 1.5^\circ$
EA-V064	21-08-15	Global Invacom (previously Skyware Global) USA	62-9885811 (Type 988 Class I with Celio Transceiver)	0.98 m offset front-fed Long focal length Ka band	Integrated transceiver assembly 3 Watt Celio of Skyware Technologies in combination with the Skyware Global Ka wideband Polarizer/Feed	0.98m	22.1 dB/K	40.6 dBW / 40 kHz for digital carriers transmitted at the satellite EUELSAT 3B receive contour of 7 dB/K (EESS 502 § 6.1 refers)

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

## Eutelsat Type Approval

## VSAT's $\leq$ 1.2 meter $\emptyset$

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V055	07-09-15 Rev.1	Global Invacom (previously Skyware Global) USA	62-1255401 (1.2 m RXTx Type 125 Class I 1.2 m RXTx Type 125 Class I extended band)	Skyware Global 1 p. 1.2 m Class I offset front-fed	Mode Matched (compensated) 2 ports, linear polarized feed/OMT for standard BUC/ LNB adaptation (WR 75 Flange)  Designed for installed RF power $\leq$ 16 Watt	1.2 m	21.3 dB/K	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  44.5 dBW /40 kHz for satellite orbital separations $\geq$ 3.0° 42.4 dBW /40 kHz for satellite orbital separations $\geq$ 2.5° 38.4 dBW /40 kHz for satellite orbital separations $\geq$ 1.5°
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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

## Eutelsat Type Approval

VSAT's = 1.5 meter Ø

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
TA-FLY-NDS- 150-712	19-09-22	ND Satcom Products GmbH.	MFT 1500 Ku	1.5m Fly away Front fed	2 ports, linear polarized Designed for installed RF power ≤ 50 Watt	1.5 m	22.4 dB/K	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers) 42.0 dBW /40 kHz (at 14-14.5 GHz) for satellite orbital separations > 1.5° 45.8 dBW /40 kHz (at 14-14.5 GHz) for Satellite orbital separations > 3°

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

## Eutelsat Type Approval

VSAT's = 1.8 meter Ø

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V065	21-08-15	Global Invacom (previously Skyware Global) USA	62-1857711 (Type 185 Class III with Mode Matched Compensated Feed)	1.8m Short focal length Offset front fed	Skyware Global Mode Matched (compensated) Feed Filter and OMT assembly, 2 ports, linear polarized  Designed for installed RF power ≤ 16 Watt	1.8 m	25.2 dB/K	For digital carriers transmitted at the satellitereceive contour of 0 dB/K(EESS 502 § 6.1 refers)  36.4 dBW /4 kHz (equivalent to 46.4 dBW /40 kHz) for satellite orbital separations ≥ 1.5°

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

## Eutelsat Type Approval

VSAT's = 2.4 meter Ø

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V062	26-08-15	Global Invacom (previously Skyware Global) USA	62-2445202 (2.4m dual optics Ku-band)	Skyware Global 2 p. 2.4m dual optics offset gregorian	Skyware Global OMT. Designed for installed RF power $\leq 16$ Watt	2.4 m	-	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  51.2 dBW/40 kHz for satellite orbital separations $\geq 1.5^\circ$
EA-V066	21-08-15	Global Invacom (previously Skyware Global) USA	62-2457711 (Type 245 Class III Ku Band)	Skyware Global 2 p. 2.4m offset gregorian	Skyware Global Mode Matched Feed Filter and OMT assembly  Designed for installed RF power $\leq 16$ Watt	2.4 m	-	For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 § 6.1 refers)  37.4 dBW /4 kHz (equivalent to 46.4 dBW /40 kHz) for satellite orbital separations $> 1.5^\circ$

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

**Applicant:**

KRATOS /ASC Signal Corporation,  
(previously Andrew Corporation)  
Kratos Antenna Solutions  
3801 E. Plano Parkway, Suite 200  
Plano, TX 75074  
USA

Tel: +1 214 291 7608

Mailto:

[Fred.Vinezeano@kratosdefense.com](mailto:Fred.Vinezeano@kratosdefense.com) (USA)  
[Raymond.Gree@kratosdefense.com](mailto:Raymond.Gree@kratosdefense.com) (Europe)

**Certificate:**

EA-A002

**Antenna:**

ES37(MPJ)K  
ES37

**Diameter:**

3.7 m

**Standard:**

M

**Approval date:**

25-09-1995

**Last revision (rev.5) date:**

20-09-2021

**Last test data submitted on:**

16-10-2014

**System Description:**

Fixed earth station for digital and television up-linking. Symmetrical dual reflector Gregorian configuration. Two pieces 3.7 m aluminum main reflector. Broadband two port feed system. Pedestal type mount in manual or motorizable version or pipe type mount in manual version.

**Configurations:**

Pipe mount (fix) : ES37 + 2LPK-37-W  
Manual mount : ES37PK-1 + 2LPK-37-W  
Motorizable mount, manual jacks : ES37MPK-1 + 2LPK-37-W  
Motorizable 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:**

1. Type Approved with diplexer DPLX-85-W for 3 ports operation.
2. The high wind version of the antenna, introduced in 2021, is considered Type Approved, provided that KRATOS finalize the performance verification.

**Applicant:**  
COBHAM/ VISLINK International Ltd  
27 Maylands Avenue  
Hemel Hempstead  
Hertfordshire, HP2 7DE  
United Kingdom

Tel:+ 44 (0) 1442 431 300

Website: [www.vislink.com](http://www.vislink.com)  
Mailto: [chris.dalton@vislink.com](mailto:chris.dalton@vislink.com)

**Certificate:**  
EA-A011

**Antenna:**  
Newswift 120 CF

**Diameter:**  
1.2 m

**Standard:**  
M

**Approval date:**  
22-10-1999

**Revisions date:**  
31-07-2008  
12-01-2015

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**System Description:**

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

**Models Available:**

Vehicle or flyaway.

**Maximum Allowed EIRP** for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

45.4 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 2.0^\circ$   
39.3 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 1.5^\circ$

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**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

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**Remarks:**

1. The authorization to operate the terminal is conditioned to the approval to access the Eutelsat S.A. Space Segment (ref. ESOG 110).
2. The Newswift 120 CF can be equipped with 1:1 combined HPA (400 Watt maximum).
3. The Type Approval validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
4. Any change to the characterized configuration needs to be notified to Eutelsat and may be subject to further tests.
5. The above Type Approval is valid for the static system. The verification of the auto-pointing performance has not been concluded yet.
6. The most recent test data is dated 26-02-2013.

**Applicant:**

COBHAM/VISLINK  
International Ltd  
27 Maylands Avenue  
Hemel Hempstead  
Hertfordshire, HP2 7DE  
United Kingdom  
Tel: + 44 (0) 1442 431 300

Website: [www.vislink.com](http://www.vislink.com)  
Mailto: [chris.dalton@vislink.com](mailto:chris.dalton@vislink.com)

**Certificate:**

EA-A012

**Antenna:**

Newswift 150 CF

**Diameter:**

1.5 m

**Standard:**

M

**Approval date:**

22-10-1999

**Revision 1 date:**

31-07-2008

**Revision 2 date:**

12-01-2015

**System Description:**

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

**Models Available:**

Vehicle or flyaway.

**Maximum Allowed EIRP** for digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

49.3 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 2.0^\circ$

42.2 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 1.5^\circ$

**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:**

1. The authorization to operate the terminal is conditioned to the approval to access the Eutelsat S.A. Space Segment (ref. ESOG 110).
2. The Newswift 150 CF can be equipped with 1:1 combined HPA (400 Watt maximum).
3. The Type Approval validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
4. Any change to the characterized configuration needs to be notified to Eutelsat and may be subject to further tests.
5. The above Type Approval is valid for the static system. The verification of the auto-pointing performance has not been concluded yet.
6. The most recent test data is dated 29-05-2013.

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA  
Tel: +1 903 988 6107  
Web: [www.cpii.com](http://www.cpii.com)  
Contact point: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A015

**Antenna:**

3.80 Meter VXK  
3.80 Meter PMK

**Diameter:**

3.8 m

**Standard:**

M

**Approval date:**

12-01-2001

**Revision 2 date:**

03-01-2013

**System Description:**

General purpose antenna for digital transmission up to higher rates. Dual offset Gregorian configuration. Bolt-together 12 panels 3.8 m aluminum main reflector. Broadband two port feed system. Pipe type mount in manual (PMK) or motorizable (VXK) version.

**Models Available:**

Two-port linear polarization feed

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

55.2 dBW / 40 kHz for satellite orbital separations  $\geq 1.5^\circ$

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

53.2 dBi (typical at 14.25 GHz)

**Rx Gain:**

51.3 dBi (typical at 11.70 GHz)

**Tx XPD:**

>35 dB within -1 dB contour

**Rx XPD:**

>35 dB within -1 dB contour

**G/T:** 29.9 dB/K at 11.70 GHz for a 70° K LNA @ 30° Elevation

**Remarks:**

1. The Type Approval tests were performed on the long test range of General Dynamics in Kilgore, Texas between the 4 and 14 June 2012.
2. The Type Approval's validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
3. Any change to the type approved configuration needs to be notified to Eutelsat and may be subject to further tests.
4. The impact of the de-ice system on the RF performance of the antenna has not been tested. For the four port Ku band configuration, refer to EA-A039.

**Applicant:**

CTS – Cobham Technical Services  
Cleeve Road  
Leatherhead, Surrey KT22 7SA  
United Kingdom

Tel: +44 1372 367 175

Website : <http://www.cobham.com>

Mailto: [vlad.stojilkovic@cobham.com](mailto:vlad.stojilkovic@cobham.com)

**Certificate:**

EA-A017

**Antenna:**

12Ku Diamond

**Diameter:**

1.2 m

**Standard:**

M

**Date:**

22-12-2000 (approval)

31-07-2008 (revision 1)

28-05-2013 (revision 2)

**System Description:**

Transportable antenna for SNG applications. Offset front-fed configuration. One piece 1.2 m diamond shape. Metalized Carbon Fiber reinforced Plastic reflector. One mount and two feed chain options available.

**Models Available:**

According to the following expressions: 12 Ku Diamond Fxx.

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

48.0 dBW / 40 KHz for an orbital separation of the adjacent satellite  $\geq 3.0^\circ$  see 3

48.0 dBW / 40 KHz for an orbital separation of the adjacent satellite  $\geq 2.5^\circ$  see 3

47.8 dBW / 40 KHz for an orbital separation of the adjacent satellite  $\geq 2.0^\circ$  see 3

38.7 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 1.5^\circ$

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

44.0 dBi (typical at 14.25 GHz)

**Rx Gain:**

42.0 dBi (typical at 11.70 GHz)

**Tx XPD:**

>32.5 dB within -1 dB contour

**Rx XPD:**

>22 dB within -1 dB contour

**Remarks, conditions and restriction:**

1. F01: Feed Chain with rotating joint  
F02: Fixed feed chain, rotation of antenna for polarization alignment
2. Submission on at least a yearly basis of measurement results for at least one production unit.
3. The maximum authorized eirp density of the F01 model, is set to 44 dBW/40 KHz at the satellitereceive contour of 0 dB/K for operations in regions where the geometric polarization angle exceeds  $\pm 30^\circ$  for the targeted satellite if the antenna is not rotated.

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 North Longview Street  
Kilgore, TX 75662  
USA

tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A023

**Antenna:**

4.8m KPK

**Diameter:**

4.8 m

**Standard:**

M

**Approval date:**

10-11-2003

**Revisions date:**

31-07-2008

16-04-2024 (note)

**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 aluminum main reflector. Broadband two port feed system. Pipe type mount in manual or motorizable 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:**

Revision of 2024: information that the antenna uses an Electroformed OMT (112120-3).

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 North Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.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

16-04-2024 (Note)

**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 aluminum main reflector. Broadband two port feed system. Pipe type mount in manual or motorizable 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:**

Note of 16-04-2024, following visit from CPI: the antenna is still in production.

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A031

**Antenna:**

C240M  
(previously  
2.4 SMC-LT)

**Diameter:**

2.4 m

**Standard:**

M

**Dates:**

21-06-2006 (approval)  
31-07-2008 (revision 1)  
16-04-2024 (Note)

**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:**

C-240M (previously named 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:**

1. The de-ice option has not been validated for the scope of the Type Approval.
2. Note of 16-04-2024: the antenna uses Electroformed OMT (114450-2) and the antenna model name has been changed from 2.4 SMC-LT to C240M

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A032

**Antenna:**

C240M  
(previously  
2.4 SMK-LT)

**Diameter:**

2.4 m

**Standard:**

M

**Dates:**

21-06-2006 (approval)  
31-07-2008 (revision 1)  
16-04-2024 (Note)

**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:**

C240M (previously 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:**

1. The de-ice option has not been validated for the scope of the Type Approval.
2. Maximum operating wind speed: 72 Km/h.
3. Note of 16-04-2024: the antenna uses Electroformed OMT (112120-3) and the antenna model name has been changed from 2.4 SMK-LT to C240M.

**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A036

**Antenna:**

C240M  
(previously  
2.4 SMC-LT)  
4-ports feed

**Diameter:**

2.4 m

**Standard:**

M

**Dates:**

30-05-2008 (approval)

16-04-2024 (note)

**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:**

C240M (previously 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

**Rx Frequency:**

3.625 – 4.200 GHz

**Tx Gain:**

41.7 dBi (typical at 6.138 GHz)

**Rx Gain:**

37.2 dBi (typical at 3.625 GHz)

**Tx XPD:**

>32 dB within 1 dB contour

**Rx XPD:**

>31 dB within 1 dB contour

**Remarks:**

1. The de-ice option has not been validated for the scope of the Type Approval.
2. Note of 16-04-2024: the antenna model name has been changed from 2.4 SMK-LT to C240M.

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**Applicant:**

CPI (previously VERTEX RSI  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107

Web: [www.cpii.com](http://www.cpii.com)

Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A037

**Antenna:**

C240M  
(previously  
2.4 SMK-LT)  
4-ports feed

**Diameter:**

2.4 m

**Standard:**

M

**Date:**

30-05-2008 (approval)

16-04-2024 (note)

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**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:**

C240M (previously 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).

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**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

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**Remarks:**

1. The de-ice option has not been validated for the scope of the TypeApproval .  
Maximum operating wind speed:72 Km/h.
2. The antenna model name has been changed from 2.4 SMK-LT to C240M.

**Applicant:**

CPI (previously VERTEX RSI)  
General Dynamics C4 Systems)  
2600 N. Longview Street  
Kilgore, TX 75662  
USA

Tel: +1 903 988 6107  
Web: [www.cpii.com](http://www.cpii.com)  
Mailto: [Alan.Pollard@cpii.com](mailto:Alan.Pollard@cpii.com)

**Certificate:**

EA-A039

**Antenna:**

3.80 Meter VXK  
3.80 Meter PMK

**Diameter:**

3.8 m

**Standard:**

M

**Approval date:**

03-01-2013

**System Description:**

General purpose antenna for digital transmission up to higher rates. Dual offset Gregorian configuration. Bolt-together 12 panels 3.8 m aluminum main reflector. Broadband four port feed system. Pipe type mount in manual (PMK) or motorizable (VXK) version.

**Models Available:**

Four-port linear polarization feed

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

55.0 dBW / 40 kHz for satellite orbital separations  $\geq 1.5^\circ$

**Tx Frequency:**

13.75 - 14.50 GHz

**Rx Frequency:**

10.70 - 12.75 GHz

**Tx Gain:**

53.2 dBi (typical at 14.25 GHz)

**Rx Gain:**

51.2 dBi (typical at 11.70 GHz)

**Tx XPD:**

>35 dB within -1 dB contour

**Rx XPD:**

>35 dB within -1 dB contour

**G/T:** 30.1 dB/K at 11.70 GHz for a 70° K LNA  
@ 30° Elevation

**Remarks:**

1. The Type Approval tests were performed on the long test range of General Dynamics in Kilgore, Texas between the 4 and 14 June 2012.
2. The Type Approval's validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.
3. Any change to the type approved configuration needs to be notified to Eutelsat and may be subject to further tests.
4. The impact of the de-ice system on the RF performance of the antenna has not been tested.
5. For the two port Ku band configuration, refer to EA-A015.

**Applicant:**

Global Invacom  
(previously Skyware Global)  
1315 Outlet Center Drive,  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711

Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb

Mailto: [hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**

EA-V055

**Antenna:**

62-1255401  
1.2 m RXTx Type 125 Class I  
1.2 m RxTx Type 125 Class I extended band

**Diameter:**

1.2 m

**Standard:**

M

**Date:**

21-10-2008 (approval)

07-09-2015 (revision 1)

**Last submitted data:**

29-07-2015 with report dated 18-08-2014

**System Description:**

Long focal length 1.2M Type 125 Class I Ku band VSAT antenna (6116023-11R) in combination with Mode Matched (compensated) 2 ports, linear polarized feed/OMT for standard BUC/ LNB adaptation (WR 75 Flange). Front fed offset configuration, manual polarization adjustment by rotating the OMT while the feed remains fixed with the antenna feed boom. Single piece 1,2 m SMC reflector. Top pole Az/EI Mount (6116125-01) with stable metal antenna back structure and steel boom arm.

**Configurations:**

One standard configuration.

Feed: 6116784-13 ; Reflector: 6116023-11R ; Azel: 6116125-01

Designed for an installed power  $\leq$  16Watt

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

44.5 dBW / 40 kHz for satellite orbital separations  $\geq$  3.0°

42.4 dBW / 40 kHz for satellite orbital separations  $\geq$  2.5°

38.4 dBW / 40 kHz for satellite orbital separations  $\geq$  1.5°

**Tx Frequency:**

13.75 – 14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

43.5 dBi (typical at 14.25 GHz)

**Rx Gain:**

41.4 dBi (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

**Windload – Pointing Error:**

<0.4°

**G/T:**

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

**Remarks:**

- 1.The sole Class I is available and is designed for operating with an external OMT in a XPC feed assembly (6116784-13) weighting a maximum of 1.7 kg.
- 2.To be operated for maximum wind speeds of up to 72 Km/h.

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**Applicant:**  
MITSUBISHI ELECTRIC CORPORATION  
2-7-3, Marunouchi Chiyoda-ku  
Tokyo 100-8310  
Japan  
  
Tel: +81 3 3218 3346  
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

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**System Description:**

Stabilized 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 polarization  
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)

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**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:**

- Operations of the tracking has been tested on a Sea Simulator, with rms pointing error <math><0.2^\circ</math>.  
Roll =  $\pm 30^\circ/7\text{sec}$  and  $24.2^\circ/\text{sec}^2$   
Pitch =  $\pm 10^\circ/5\text{sec}$  and  $15.8^\circ/\text{sec}^2$   
Yaw =  $\pm 4^\circ/14\text{sec}$  and  $0.8^\circ/\text{sec}^2$
- Measured G/T= 18.4 dB/K @ 12.5 GHz, 30° Elevation

**Applicant:**

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

Tel: +46 8 728 50 00

Website: <http://www.rockwellcollins.com>

EMailto: [swetac@rockwellcollins.com](mailto: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
2. Maximum operating wind speed: 20 m/s

**Manufacturer:**

Cobham SATCOM, Sea Tel Products  
4030 Nelson Avenue  
CONCORD, CA94520  
USA

Tel: + 1 925 798 7979

Website: <http://www.cobham.com/seatel>

Mailto: [Darren.Manning@cobham.com](mailto:Darren.Manning@cobham.com)

**Certificate:**

EA-V058

**Antenna models:**

5009 StdM Mk2  
5012 StdM

**Diameter:**

1.2 m

**Standard:**

M

**Approval date:**

08-12-10

**Revision 1 date:**

18-11-2013

**System Description:**

Stabilized 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 SEATEL design. Three axis stabilization platform with conical scanning tracking.

BUC Various (NJRC, Codan, Comtech) 4-8-16-40 Watt with integrated SMW Q-PLL or NJRC LNB.

**Models Available:**

Standard configuration: 13.75-14.50 GHz linear orthogonal polarization.

Option 1: Tx and Rx parallel.

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

40.6 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 2.0^\circ$

38.0 dBW / 40 kHz for an orbital separation of the adjacent satellite  $\geq 1.5^\circ$

**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  $<0.2^\circ$ .  
Roll =  $\pm 20^\circ/8$  sec  
Pitch =  $\pm 4^\circ/8$  sec  
Yaw =  $\pm 6^\circ/8$  sec
3. Measured G/T= 19.3 dB/K @ 12.50 GHz,  $31.2^\circ$  Elevation.

**Applicant:**

Mitsubishi Electric Corporation  
2-7-3, Marunouchi Chiyoda-ku,  
Tokyo100-8310,  
Japan

Tel: +81-3-3218-3346

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  $\geq 1.5^\circ$ .  
41.4 dBW / 40 kHz for satellite orbital separations  $> 2^\circ$ .

**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 was tested on a Sea Simulator, with pointing error  $<0.2^\circ$ .
2. Roll= $\pm 30^\circ/7$  sec. Pitch =  $\pm 10^\circ/5$  sec. Yaw =  $\pm 4^\circ/20$  sec.
3. In case of tracking error  $>0.2^\circ$ , the ACU will directly inhibit transmission of the BUC.
4. 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.
5. The worst excess of the EESS masks in the Rx side is equal to 7.2 dB at  $1.5^\circ$ , 10.70 GHz in Elevation V polarization. The service quality in the receive side may be impaired for operations on satellites with less than  $2.5^\circ$  orbital separation from the adjacent one. Nevertheless, these operations may be exceptionally authorized according to a valid transmission plan.

**Applicant:**

Mitsubishi Electric Corporation  
2-7-3, Marunouchi Chiyoda-ku,  
Tokyo 100-8310,  
Japan

Tel: +81-3-3218-3346

Website : <http://global.mitsubishielectric.com>

Contact point:

[Sato.Hiroyuki@ea.mitsubishielectric.co.jp](mailto:Sato.Hiroyuki@ea.mitsubishielectric.co.jp)

**Certificate:**

EA-V060

**Antenna:**

MVA60

**Diameter:**

0.62 m

**Standard:**

M

**Approval date:**

15-06-2012

**System Description:**

Stabilized maritime antenna equipped with linear polarized 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 0.6 m ring focus aluminum antenna with backfire feedhorn, with 750 mm diameter 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 (MVA60-DS8): 14.00-14.50 GHz Tx and Rx orthogonal and parallel polarization  
Option 1 (MVA60-DE8) : 14.00-14.50 GHz Tx and Rx orthogonal polarization  
Option 2 (MVA60-SS8) : 13.75-14.50 GHz Tx extended band and Rx orthogonal  
Option 3 (MVA60-SE8) : 13.75-14.50 GHz Tx extended band and Rx orthogonal and parallel polarization

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

31.0 dBW / 40 kHz for satellite orbital separations  $\geq 1.5^\circ$

32.1 dBW / 40 kHz for satellite orbital separations  $\geq 2.5^\circ$

33.2 dBW / 40 kHz for satellite orbital separations  $\geq 3^\circ$

**Tx Frequency:**

13.75 - 14.50 GHz

**Tx Gain:**

37.3 dBi (typical at 14.25 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx Frequency:**

10.70 - 12.75 GHz

**Rx Gain:**

35.6 dBi (typical at 11.70 GHz)

**Rx XPD:**

>26 dB within -1 dB contour

**G/T:** 15.0 dB/K at 12.50 GHz (parallel port)

15.5 dB/K at 12.50 GHz (orthogonal port)

**Remarks:**

1. Operations of the tracking has been tested on a Sea Simulator, with pointing error  $< 0.2^\circ$ . Roll =  $\pm 30^\circ/7$  sec; Pitch =  $\pm 10^\circ/5$  sec; Yaw =  $\pm 4^\circ/14$  sec.

In case of tracking error  $> 0.2^\circ$ , 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 Tsukaguchi, Japan between the 9 and 18 May 2012.

3. The worst excess of the EESS masks in the Rx side is equal to 8.4 dB (10.70 GHz) hence the service quality in the receive side may be impaired. Nevertheless, these operations may be exceptionally authorized according to a valid transmission plan.

4. The characterization's validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard at the inspection date.

5. Any change to the characterised configuration needs to be notified to Eutelsat and may be subject to further tests.

6. The polarization skew of the Eutelsat satellites is automatically taken into account in the ACU software via pre-programmed look-up tables.

**Applicant:**

Global Invacom  
(previously Skyware Global)  
1315 Outlet Center Drive,  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711  
Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb  
Mailto: [hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**

EA-V061  
Antenna: Type 965 Class I (62-9615401)

**Diameter:**  
0.96 m

**Standard:**  
M

**Approval date:**  
26-08-2015

**Last submitted data:**  
30-07-2015 with report dated 08-08-2014

**System Description:**

Long focal length earth station for low and medium rate digital traffic; particularly suited for VSAT applications.

Front fed offset configuration, feed with mode generator and rotary joint. Single piece 0.96 m SMC reflector. Two port die-cast OMT. Az/EI Mount with steel boomarm.

**Configurations:**

One standard configuration: type 965 Class I (fixed applications).

Feed: 6116784-13 ; Reflector: 6116021-11 ; Azel: 6116125-01

Designed for an installed power  $\leq$  16Watt

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

42.9 dBW / 40 kHz for satellite orbital separations  $\geq$  2.5°

37.5 dBW / 40 kHz for satellite orbital separations  $\geq$  2.0°

35.6 dBW / 40 kHz for satellite orbital separations  $\geq$  1.5°

**Tx Frequency:**

13.75 – 14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

41.2 dBi (typical at 14.25 GHz)

**Rx Gain:**

39.5 dBi (typical at 11.70 GHz)

**Tx XPD:**

>30 dB within -1 dB contour

**Rx XPD:**

>28 dB within -1 dB contour

Windload – Pointing Error:

<0.4°

**Remarks:**

1. Class I is designed for operating with an assembly (LFL XPC Feed Horn, Overmode Die Cast Generator module, OMT 1 Transmit Reject Filter with Die Cast Mounting Block) weighting a maximum of 1.7 Kg.
2. To be operated for maximum wind speeds of up to 72 Km/h.
3. According to ITU (ref. ITU-R Radio Regulation N°5.502 and 5.503.), the antennas < 1.2m are not allowed to traffic at 13.75 – 14.00 GHz.
4. The Type 965 Class I was previously type approved on 01-04-2008 as EA-A035 (expired), with the reference Type 961 (62-9615401).

**Applicant:**

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(previously Skyware Global)  
1315 Outlet Center Drive,  
Smithfield, N.C. 27577  
USA

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Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb  
Mailto: [hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**  
EA-V062

**Antenna:**  
2.4m dual optics Ku-band  
(62-2445202)

**Diameter:**  
2.4 m

**Standard:**  
M

**Approval date:**  
26/08/2015

**Last submitted data:**  
30/07/2015 with report dated 28/01/2015

**System Description:**

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

**Configurations:**

One standard configuration.  
Feed + OMT: 610012602 ; Reflector: 6116124-08R ; Azel: 6116114-11R  
Designed for an installed power  $\leq$  16 Watt

**Maximum Allowed EIRP density:**

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

**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

Windload – Pointing Error:

<0.4°

**Remarks:**

1. To be operated for maximum wind speeds of up to 72 Km/h.
2. The 2.4m dual optics Ku-band 62-2445202 was previously type approved as EA-A027 (expired) on 07-01-2005 with revision on 31-07-2008.

**Applicant:**

Global Invacom  
(previously Skyware Global)  
1315 Outlet Center Drive,  
Smithfield, N.C. 27577  
USA

Tel: +1 919 934 9711

Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb

Mailto: [hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**

EA-V064

**Antenna:**

Type 988 Class I  
With Celio Transceiver

**Diameter:**

0.98 m

**Standard:**

M

**Approval date:**

21-08-2015

**Last submitted data:**

30-07-2015

**System Description:**

Long focal length Ka band VSAT antenna in combination with Celio Transceiver and Skyware Global Polarizer/Feed for circular polarization. Front fed offset configuration, manual polarization adjustment. Single piece 0,98 m SMC reflector. Top pole Az/EI Mount with SMC antenna back structure and steel boom arm suitable for a variety of different Transceivers.

**Configurations:**

Standard VSAT for fixed applications: Type 988 Class I

This approval covers only the utilization with the Celio 3 W Transceiver manufactured by Skyware technologies and the Ka band wideband Polarizer/Feed manufactured by Skyware Global, although this system is designed to work with a variety of Transceivers attached with different brackets to the feed boom. Each different Transceiver/Feed needs a separate approval.

Feed: FED080KA02 ; Reflector: 6116037 ; Azel: 1504808

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 7 dB/K of EUTELSAT 3B: (EESS 502, § 6.1 refers):

40.6 dBW / 40 kHz for satellite orbital separations  $\geq 1.5^\circ$

**Tx Frequency:**

28.30 – 30.00 GHz

**Rx Frequency:**

18.30-20.20 GHz

**Tx Gain:**

47.6 dBi (average at 29.15 GHz)

**Rx Gain:**

44.1 dBi (average at 19.25 GHz)

**Tx XPD:**

>25.9 dB within -1 dB contour

**Rx XPD:**

>25 dB within -1 dB contour

**Pointing Error:**

$\leq 0.3^\circ$

**G/T:** 22.1 dB/K, with a Transceiver of NF of

1.5 dB

**Remarks:**

1. Class I (Class II and III do not exist) is designed for operating with an integrated transceiver assembly Celio of Skyware Technologies in combination with the Skyware Global Ka wideband Polarizer/Feed weighting a maximum of 1.7 Kg.
2. To be operated for maximum wind speeds of up to 72 Km/h.

**Applicant:**

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Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb  
Mailto:[hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**

EA-V065

**Antenna:**

Type 185 Class III  
With Mode Matched Compensated Feed

**Diameter:**

1.8 m

**Standard:**

M

**Approval date:**

21-08-2015

**Last submitted data:**

30-07-2015

**System Description:**

Short focal length Ku band VSAT antenna in combination with Mode Matched (compensated) 2 ports, linear polarized feed/OMT for standard BUC/ LNB adaptation (WR 75 Flange). Front fed offset configuration, manual polarization adjustment by rotating the OMT while the feed remains fixed with the antenna feed boom. Single piece 1,8 m SMC reflector. Top pole Az/EI Mount with stable metal antenna back structure and steel boom arm.

**Configurations:**

Standard VSAT for fixed applications: Type 185 Class III Feed: 611678501 ; Reflector: 6116118-11 ; Azel: 611610207

Designed for an RF Front End of up to 11 kg weight (25 lbs) and for and for an installed power  $\leq 16$ Watt

**Maximum Allowed EIRP:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):

36.4 dBW / 4 kHz for satellite orbital separations  $\geq 1.5^\circ$

**Tx Frequency:**

13.75 – 14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

46.7 dBi (average at 14.25 GHz)

**Rx Gain:**

45.0 dBi (average at 11.70 GHz)

**Tx XPD:**

>29 dB within -1 dB contour

**Rx XPD:**

>21 dB within -1 dB contour

**G/T:**

25.2 dB/K, based on a LNB NF of 0.8 dB

**Remarks:**

1. Class III (Class I and II do not exist) is designed for operating with standard BUC and LNBas separate units, maximum weight of the RF front end: up to 11.3 Kg (25 lbs).
2. To be operated for maximum wind speeds of up to 72 Km/h.

**Applicant:**

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Web Site: <https://globalinvacom.com>

Contact point: Hamid Moheb

Mailto: [hamidmoheb@globalinvacom.com](mailto:hamidmoheb@globalinvacom.com)

**Certificate:**

EA-V066

**Antenna:**

2.4m single optics Ku-Band  
Type 245 Class III Ku Band  
Compensated 2 port feed

**Diameter:**

2.4 m

**Standard:**

M

**Approval date:**

21/08/2015

**Last submitted data:**

30/07/2015

**System Description:**

Short focal length Ku band VSAT antenna equipped with new developed mode matched feed/OMT for standard BUC/LNB with WR 75 flange for linear polarization. Two pieces 2,4 m SMC reflector. Top pole Az/EI Mount with heavy metal back structure and steel boom arm suitable for RF front ends up to 11.3 Kg. (25 lbs).

**Configurations:**

Standard VSAT for fixed applications

Feed: 611678501 ; Reflector: 6116124-12 ; Azel: 611611407

Class III designed for a RF front end with a total weight of up to 11.3 kg or 25 lbs

Designed for an installed power  $\leq$  16 Watt

**Maximum Allowed EIRP density:**

For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502, § 6.1 refers):  
37.4 dBW / 4 kHz for satellite orbital separations  $\geq$  1.5°

**Tx Frequency:**

13.75-14.50 GHz

**Rx Frequency:**

10.70-12.75 GHz

**Tx Gain:**

49.2 dBi (average at 14.25 GHz)

**Rx Gain:**

47.5 dBi (average at 11.70 GHz)

**Tx XPD:**

>31 dB within -1 dB contour

**Rx XPD:**

>35 dB within -1 dB contour

**G/T:**

27.7 dB/K, assuming an LNB with 0.8 dB NF

**Remarks:**

1. Class III (Class I and II do not exist) is designed for operating with standard BUC and LNBas separate units, maximum weight of the RF front end: up to 11.3 Kg (25 lbs).
2. To be operated for maximum wind speeds of up to 72 Km/h.

**Applicant:**

ND SatCom Products GmbH  
 Graf-von-Soden-Strasse  
 88090 Immenstaad Germany

Contact Point: Alexander Nagel  
 voice: +49 7545 939 8020  
 email: Alexander.[Nagel@NDSatcom.com](mailto:Nagel@NDSatcom.com)

**Certificate:**

TA-FLY-NDS-150-712

**Antenna model:**

MFT 1500 Ku

**Diameter:**

1.5 m

**Standard:**

M

**Type Approval Date:**

19/09/2022

**Last test data submitted on:**

15/07/2022

**System Description:**

Fly-away Antenna with manual pointing system, with one Tx and one RX ports. Circular reflector of 1.5 m, front-fed, made of four pieces from carbon fiber material, it is equipped with a BUC of maximum 50 W.

**Maximum Allowed EIRP:** For digital carriers transmitted at the satellite receive contour of 0 dB/K (EESS 502 refers):

Orbital Satellite Separation	12.75 – 13.00 [GHz]	13.00- 13.25 [GHz]	13.75 – 14.00 [GHz]	14.00 - 14.50 [GHz]
≥ 1.5°	39.2 [dBW/40 KHz]	39.8 [dBW/40 KHz]	39.5 [dBW/40 KHz]	42.0 [dBW/40 KHz]
≥ 2°	42.7 [dBW/40 KHz]	42.9 [dBW/40 KHz]	42.9 [dBW/40 KHz]	44.9 [dBW/40 KHz]
≥ 2.5°	43.9 [dBW/40 KHz]	44.3 [dBW/40 KHz]	43.2 [dBW/40 KHz]	45.1 [dBW/40 KHz]
≥ 3°	42.4 [dBW/40 KHz]	43.7 [dBW/40 KHz]	43.0 [dBW/40 KHz]	45.8 [dBW/40 KHz]

**Tx Frequency:**

12.75 - 14.50 GHz

**Tx Gain:**

45.8 dBi (worst case at 14.00 GHz)

**Tx XPD:**

≥ 28 dB within -1 dB contour (worst case at 12.75 GHz)

**Pointing and wind load error:**

< 0.2°

**Rx Frequency:**

10.70 – 12.50 GHz

**Rx Gain:**

42.7 dBi (worst case at 11.70 GHz)

**Rx XPD:**

≥ 34.8 dB at boresight and at 12.50 GHz in V-Pol

**G/T:**

22.4 dB/K measured at 11.90 GHz, NF of the LNB amounts to 0.93 dB

**Restrictions and remarks:**

1. The access is assumed to be in TDMA mode on digital carriers of maximum 10 MSym/s
2. The authorization to operate the terminal is conditioned to the approval to access the Eutelsat S.A. Space Segment (ref. ESOG 110).
3. This Characterization has been performed at the test range of Politecnico di Torino (Turin, Italy) between June and July 2022.
4. The Type Approval's validity is subject to regular submission of patterns to confirm that the system remains compliant with the Eutelsat standard.

### HISTORICAL EUTELSAT TYPE APPROVAL

Standard Antennas

Standard VSATs

#### GENERAL

This section lists Type Approvals for which regular set of patterns were not provided to Eutelsat, further the initial Type Approval, or which are known as being discontinued.

This list is given as a historical reminder.

## Eutelsat Type Approval

## Ku-Band Standard Antennas, SNG

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A001	31-07-08 Rev.1	M	Cobham (previously Vislink Communications Ltd / 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	CPI (previously 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-A016	31-07-08 Rev.1	M	CPI (previously 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)

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

## Eutelsat Type Approval

## Ku-Band Standard Antennas, Fixed General Purpose

Certif.	Dated	Std	Supplier	Model	Type	Remarks*
EA-A003	31-07-08 Rev.1	M	Kratos (previously ASC Signal / 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	CPI (previously 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-A030	31-07-08 Rev.1	M	CPI (previously 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: Authorized EIRP levels are given for locations at the satellite receive beam edge (EESS-502 § 6.1 refers).

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

## Eutelsat Type Approval

## Ku-Band Maritime Antennas

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 stabilized 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 0dB/K (EESS 502 § 6.1 refers)

\*Note: Authorized 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

## Eutelsat Type Approval

## VSAT's $\leq 1$ meter $\varnothing$

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

## Eutelsat Type Approval

## VSAT's $\leq 1$ meter $\varnothing$ (Cont'd)

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

## Eutelsat Type Approval

## VSAT's $\leq$ 1 meter $\varnothing$ (Cont'd)

Certif.	Dated	Applicant	Model	Antenna Type	Radio Equipment	Diam.	G/T (typ)	Authorised EIRP Density*
EA-V046	31-07-08 Rev.1	CPI (previously 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: Authorized 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 Ø**

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	CPI (previously 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)

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

## Eutelsat Type Approval

**VSAT's = 2.4 meter Ø**

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

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