

Visualize and analyze re-broadcast data

The eTelecast ground station is designed to ingest and process environmental data that is disseminated via commercial telecommunication geostationary satellites.

eTelecast ADVANTAGES

- One-stop-shop reception mechanism allows users to receive many data streams via one reception station
- Highly scalable system architecture
- Integrates with EEC's powerful Proteus satellite image processing package

Automatic reception, decryption, decompression, archiving, output and processing of EUMETCast, GEONETCast, HIMAWARI-Cast & CMA-Cast data.

The eTelecast ground station receives pre-processed geostationary data from communications satellites, providing a solution where direct broadcast reception is either not possible or not needed.

With its multiple antenna and receiver options, eTelecast is suited for different dissemination services, geographical locations and service requirements. Both Ku-Band and C-Band DVB and DVB-S2 transmissions are supported.

The eTelecast ground station seamlessly integrates with our powerful Proteus visualization and analysis software. A wide variety of standard data interchange output formats are available, including GeoTIFF, JPEG, netCDF and HDF5.

From manufacturing and engineering to final installation and training, the eTelecast ground station is a turn key system, providing all of the hardware and software required to collate and analyze re-broadcasted meteorological data.

eTELECAST

EUMETCast, GEONETCast, HIMAWARI-Cast, CMA-Cast

Complete geostationary satellite ground station for reception and visualization of re-broadcast data.

PRODUCTS

- Level 1 Satellite data from METEOSAT, METOP, GOES, MTSAT, HIMAWARI-8, FY2D, AQUA, TERRA
- MODIS level 1 and 2 products covering selective geographical regions
- Numerical weather forecasts
- In-situ observational data.
- Land application products
- Global and regional marine meteorological and ocean surface products.

DATA SOURCES:

- EUMETCast
- GEONETCast
- HIMAWARI-Cast
- CMA-Cast



PERFORMANCE SPECIFICATIONS

KU-BAND	0.85M ANTENNA	1.2M ANTENNA	1.8M ANTENNA
Reflector type	21° offset	21.3° offset	Offset
Reflector material	Solid aluminum, powder coated	Solid aluminum, powder coated	Glass-fibre reinforced polyester
F/D ratio	0.67	0.66	0.66
Gain	38.2dBi	41.3dBi	45.5dBi
Polarisation	Linear	Linear	Linear
G/T @ 5° elevation	17.2dB/K	19.2dB/K	26.0dB/K
Wind speeds	80km/h operational 120km/h survival	80km/h operational 120km/h survival	72km/h operational 201km/h survival

C-BAND	2.4M ANTENNA	3.0M ANTENNA	3.7M ANTENNA
Reflector type	Prime focus parabolic	Prime focus parabolic	Prime focus parabolic
F/D ratio	0.37	0.3	0.37
Gain	37.5dBi	40.0dBi	40.9dBi
Polarisation	Circular	Circular	Circular
G/T @ 5° elevation	17.7dB/K	19.8dB/K	21.7dB/K
Wind speeds	80km/h operational 201km/h survival	72km/h operational 201km/h survival	72km/h operational 201km/h survival

eTELECAST COMPONENTS



ANTENNA

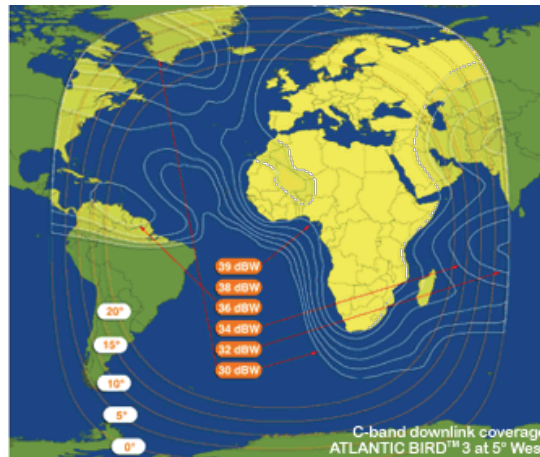


EEC100-L DVB/DVB-S2 RECEIVER

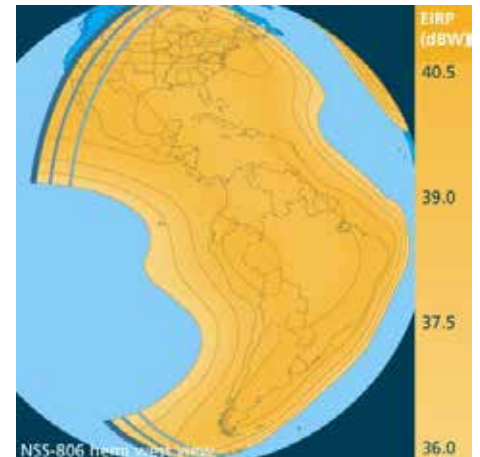


INGEST AND VISUALIZATION SERVER AND 32" ULTRA HD MONITOR

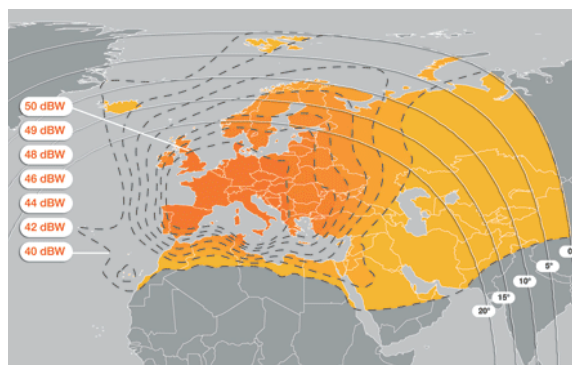
ON-SITE INSTALLATION AND TRAINING SERVICES



C-Band Africa



C-Band Americas



Ku-Band Europe



C-Band Asia