

## TELESTO

**MTSAT HRIT & LRIT, FY-2 SVISSR & GOES GVAR, COMS**  
High-performance, turn key geostationary satellite ground stations  
perfect for weather forecasting and research



REMOTE SENSING

# Keep more than an eye on the weather

Telesto is a permanent, high-performance geostationary system designed for the collection and interrogation of satellite data for forecasting and research applications.

## TELESTO ADVANTAGES

- Complete turn key system for use by forecasters with integrated reception & processing
- Full range of forecasting tools with Dvorak technique, topography, overlays, zooming & panning
- Integration & display of multiple data sources including GRIB, Synops
- Level 2 products such as SST, cloud classification
- All common satellite formats such as HDF, NetCDF, Level 1B
- Interfaces with EEC's powerful Proteus satellite image processing package



## Comprehensive weather forecasting and analysis

The Telesto ground station provides all of the tools you need to receive weather and atmospheric data from meteorological satellite systems and process them into image files. The satellite systems accessible via Telesto include the Geostationary Operational Environmental Satellite (GOES) East and West; the Japanese Meteorological Agency's MTSAT spacecraft; the Chinese Meteorological Association's FY-2 satellite; and the Korea Meteorological Administration's Communication, Ocean and Meteorological Satellite (COMS).

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

## APPLICATIONS

- Weather forecasting
- Cyclone detection and tracking
- Volcanic ash detection and tracking

## DATA SOURCES:

- GOES
- MTSAT
- FY-2
- COMS





## PERFORMANCE SPECIFICATIONS

### ANTENNA

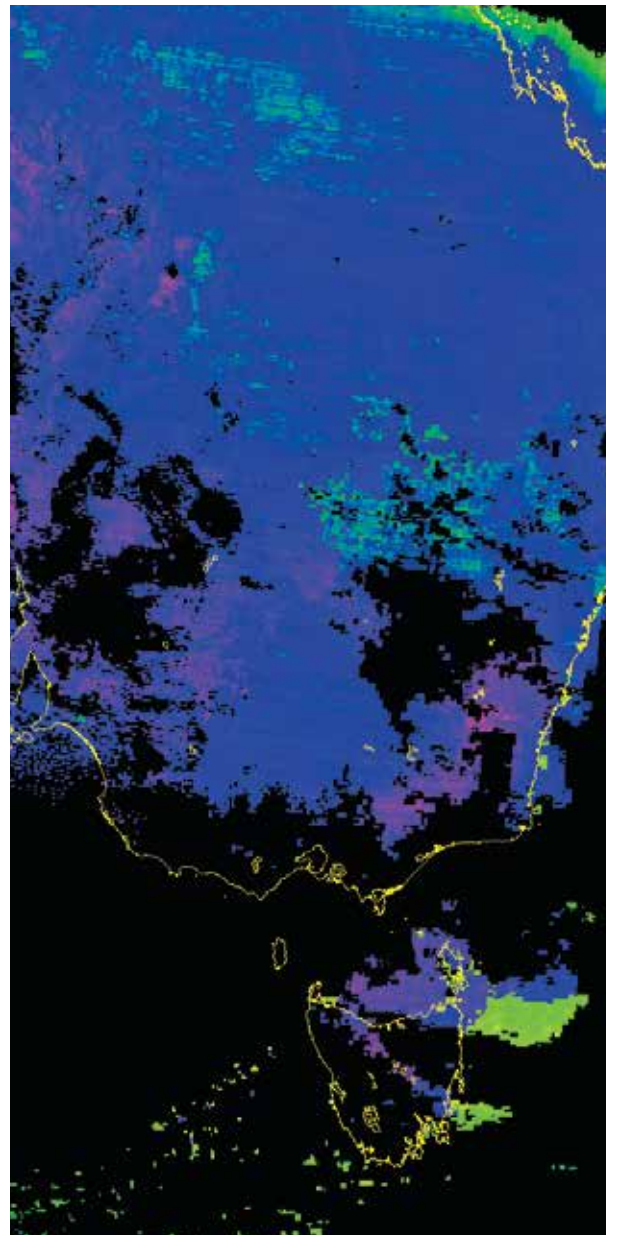
Aperture	3.6/3.7m
3dB Beamwidth	3.6 Degrees
Antenna Gain at 1.7GHz	34dB
Material	Aluminium
Coating	Polyester Powder Coating

### DOWNCONVERTER

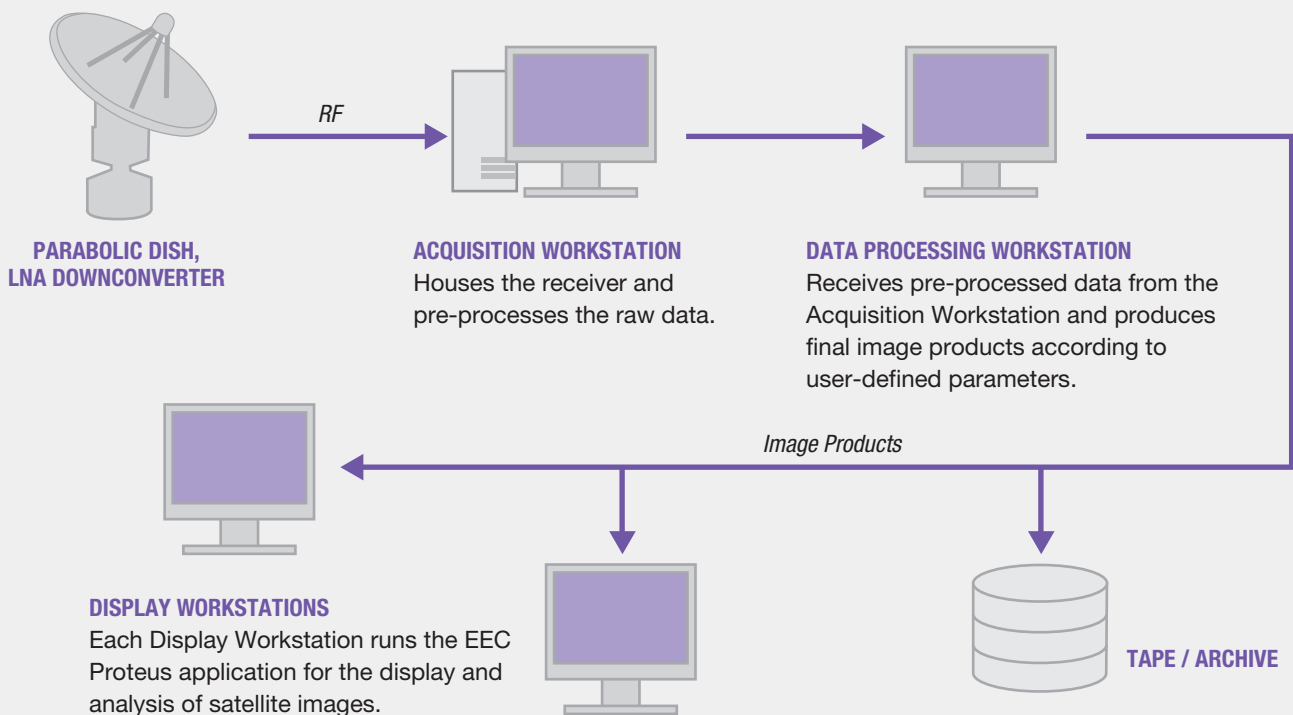
Noise Figure	1.2dB typical
Input Center Frequency	1691.000 MHz y
Output Center Frequency	137.500 MHz
Conversion Gain	>50dB, 52dB typical
Output Impedance	50 ohms
Temperature (Operating)	-40 to 60 degrees C

### RECEIVER

Input Frequency	126 to 154 MHz
Input Dynamic Range	-90 to -50dBm
Input Impedance	50 ohms
Demodulation Modes	BPSK, PSK
Support Symbol Rates	0.1 to 2.7 MSPS
Temperature (Operating)	0 to 50 degrees C non-condensing
Interface	RS-232 9600 baud



## TYPICAL TELESTO CONFIGURATION



## A COMPLETE WEATHER FORECASTING AND CYCLONE TRACKING GROUND STATION



*Front Cover Image: Land Atmosphere Near-real time Capability for EOS (LANCE) system operated by the NASA/GSFC Earth Science Data and Information System (ESDIS) with funding provided by NASA/HQ.*

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SIDPOL™ Radar is patented technology, covered by U.S. Patent No. 6,859,163 B2, U.S. Patent No. 7,049,997, U.S. Patent No. 7,439,899, U.S. Patent No. 7,551,123, U.S. Patent No. 7,683,828, U.S. Patent No. 7,750,573, U.S. Patent No. 7,760,129, U.S. Patent No. 7,880,665, U.S. Patent No. 7,450,693, U.S. Patent No. 7,369,082, 13041 (OAPI Region), 009250 (Eurasia) and 009249 (Eurasia).

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