

JANUS

GOES, MTSAT, FY, MSG, COMS

Portable, reliable, and high-performance complete ground station



REMOTE SENSING

Track the weather from wherever you are

Janus is a portable high-performance geostationary system perfect for the collection and analysis of satellite data for mobile and real-time forecasting and research applications.

Weather forecasting and analysis on-the-go

The Janus ground station is a reliable, easily transportable system that allows you to collect, process and display either LRIT or full resolution data from meteorological satellites, no matter where you are.

This portable geostationary system can be quickly assembled and disassembled, and is perfect for military, meteorological and disaster relief organizations that require swift deployment in remote locations. Both the antenna and the processing unit can be assembled and made operational in less than 15 minutes. Both units are easily transported in the provided rugged and durable transit cases.

The Janus ground station is an easy to use, portable, turnkey system, providing all of the hardware and software required to collate and analyze geostationary satellite meteorological data on the go.

JANUS ADVANTAGES

- Portable antenna with feed and downconverter
- Signal interface and processing unit
- Image display laptop computer, incorporating processing and ingest workstation
- Receiver
- Ingest and acquisition software
- Interfaces with EEC's powerful Proteus satellite image processing package
- Rugged carry cases

APPLICATIONS

- Military
- Disaster management
- On-site event weather monitoring

DATA SOURCES:

- MTSAT
- FY-2
- COMS
- GOES East and West



PERFORMANCE SPECIFICATIONS

ANTENNA

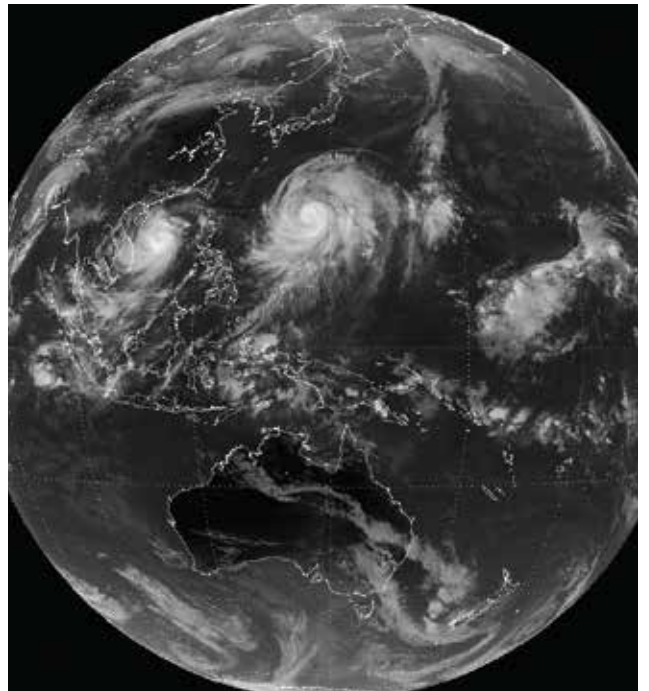
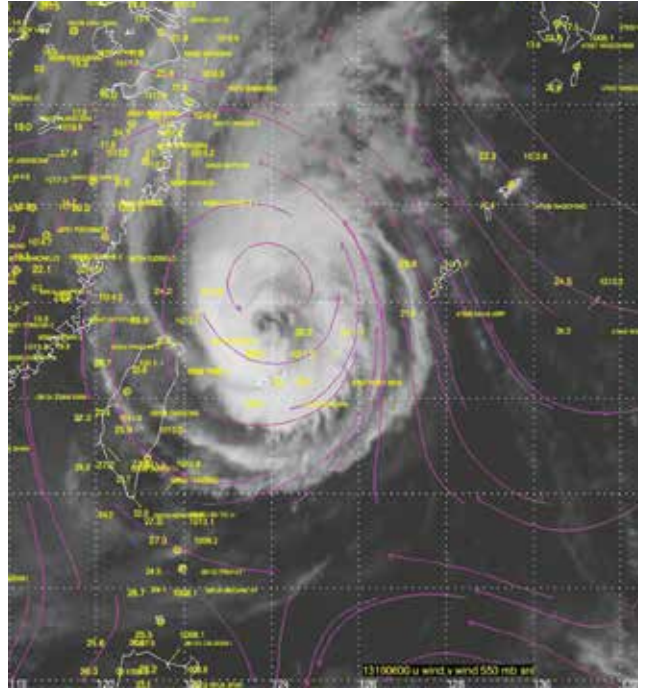
Type	Mesh, six petals
Diameter	2.3m
Alignment	Integrated signal level indicator

RECEIVER

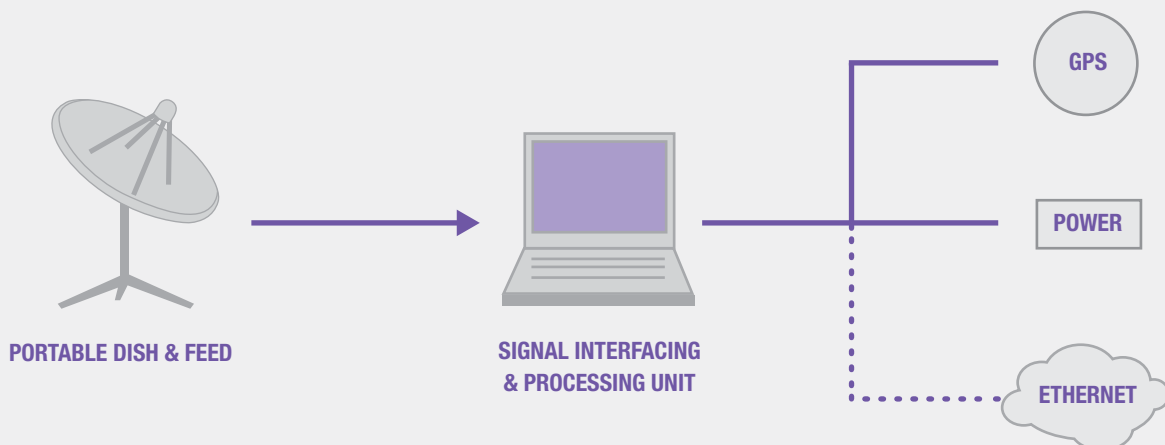
Input Frequency	126 to 154 MHz
Input Dynamic Range	-90 to -50dBm
Input Impedance	50 ohms
Demodulation Modes	BPSK, PSK
Support Symbol Rates	0.1 to 2.7 MSPS
Temperature (Operating)	0 to 50 degrees C non-condensing
Interface	RS-232 9600 baud

FEEDER / LNA / DOWNCONVERTER

Noise Figure	0.8dB typical, 1.2 dB max
Input Center Frequency	1702.500 MHz
Output Center Frequency	137.500 MHz
Conversion Gain	>45dB, 48dB typical
Input Impedance	50 ohms
Temperature (Operating)	0 to 50 degrees C non-condensing



TYPICAL JANUS CONFIGURATION



PORTABLE AND RELIABLE, HIGH-PERFORMANCE SATELLITE GROUND STATION



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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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