

2.4m MULTI-TELEMETRY GROUND STATION EODS-P2400 SERIES

PRODUCT OVERVIEW

The 2.4m Multi Telemetry Ground Station is configured with a tracking antenna and receiver for the reception of real-time satellite data. It includes the necessary proprietary hardware, and proven TeraScan® software for the automated reception, processing, and visualization of the resulting products.

SeaSpace has accumulated over 25 years of experience in the design, manufacture, and maintenance of its TeraScan® satellite reception and processing systems, with hundreds of systems operating within mission-critical organizations in over 37 countries on all seven continents.

TeraScan® performs automated image navigation and geolocation for every major remote sensing satellite. A World Vector Coastline database and the TeraNav interactive navigation tool is included with each system.

The EODS-P2400 series can currently receive and process telemetries such as NOAA HRPT, MODIS, FY-3, MetOp, and Oceansat-1/2 OCM data, and once launched, will be able to receive and process the NPP and JPSS series of satellites. For more information on purchasing a EODS-2400, contact sales@seaspace.com.



2.4m X-Band Antenna



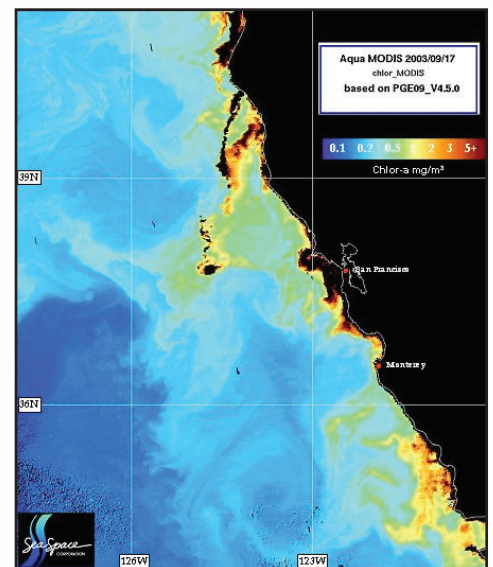
Acquisition Module



TeraScan® Analysis GUI

KEY FEATURES

- High tracking accuracies
- No keyhole losses at any elevation
- Operation in extreme environments
- Easy to install, operate and maintain
- Program Track and Autotrack Modes
- High reliability for mission critical operations
- End-to-End system solutions - Turn Key System
- Automated capture and processing 24/7
- Low maintenance cost and power consumption
- Environmentally friendly
- Remote Access Control



Data Captured and Processed by TeraScan®

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EARTH ON DEMAND



2.4m MULTI-TELEMETRY GROUND STATION

EODS-P2400 SERIES

SYSTEM SPECIFICATIONS

Radome	Material Diameter Height Weight Attenuation	Composite 3.2m 3.6m 182kg <0.25dB @ 8.2 GHz
Reflector	F/D Ratio Surface Tolerance Effective Diameter Material	0.375 ratio 0.030 inches 2.4m Solid Aluminum
Positioner	Elevation Range Azimuth Range Cross-Level Range Max. Az. Velocity Max. El. Velocity Max. Cross-El. Velocity Maximum Acceleration Tracking Accuracy	0 - 180 degrees Unlimited ± 20 degrees, active tracking axis 10.5 deg/sec 3.5 deg/sec 10.5 deg/sec 2.8 deg/sec ² 0.03 degrees
Feed (X-Band)	Type of Autotrack Polarizations Feed Geometry Input Frequency	Conical Scanning RHCP or LHCP Prime Focus 7.7-8.5 GHz
LNA (X-Band)	Frequency Range Bandwidth	7.7-8.5 GHz 800 MHz
RF Performance (X-Band)	Antenna Gain G/T	43.7 dBic @ 8.2 GHz 22.8 dB-K @ 8.2 GHz
Downconverter (X-Band)	Input Freq. Range IF Outputs	7.7-8.5 GHz 720 MHz
Integrated Feed/LNA/ Downconverter (L/S-Band)	Feed Type Polarization L-Band Input Frequency S-Band Input Frequency	Dual Crossed Dipoles RHCP 1680-1720 MHz 2166-2315 MHz
RF Performance (L-Band)	Antenna Gain G/T	30.1 dBic @ 1700 MHz 12.2 dB-K @ 1700 MHz
Environmental Specs.	Operational Temperature Operational Humidity Operational Wind Speed Survival Wind Speed	-45 to 60 Celsius 0 to 100 % 240 Kph (150 mph) 240 Kph (150 mph)

ACQUISITION MODULE SPECS

Operating System: Linux
(RHEL and CentOS)

Input Signal Power: -60 to -20 dBm
X-Band, -90 to -50 L-Band

Input Frequency: 720 MHz (X-Band),
126-154 MHz (L-Band)

Demodulation Types: BPSK, SQPSK,
USQPSK, QPSK

BER Performance: < 0.5 dB typical

Data Rates: 0.665 to 20.8 Mbps

13.125 Mbps	Terra
15.0 Mbps	Aqua
15.0 Mbps	NPP/JPSS
18.7 Mbps	FY-3
42.45 Mbps	Oceansat-2

Clock and Data Outputs: ECL, TTL,
RS-422, LVDS

Supported Telemetries: NOAA HRPT,
METOP AHRPT, FY-1 CHRPT, EOS
DB, Oceansat DB, DMSP RTD,
NPP/JPSS

NTP: with GPS or NTP Servers

MODELS

EODS-P2400-X — 2.4m X-Band
Ground Station

EODS-P2400-LX — 2.4m L/X-Band
Ground Station

EODS-P2400-LSX — 2.4m L/S/X-
Band Ground Station



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