G6 GOES HDR Transmitter

PRODUCT SPECIFICATIONS

The FTS G6 GOES HDR Transmitter operates on the North and South American GOES Satellite networks. The G6 is extensively field proven and has demonstrated industry leading reliability with optimal operational characteristics for remote locations.

- Able to operate for 28 days between GPS synchronizations, maximizing operational availability.
- Optimized for low power operation to extend battery standby operation at remote sites in situations of low power or interrupted solar panel charging.
- Easy set-up and installation:
  - Automatic reset and start-up (all configuration data stored in non-volatile memory).
  - Front panel LEDs confirm operating status
  - Works with FTS dataloggers to automatically calculate antenna inclination and bearing.
  - Provides diagnostic reports on forward and reflected power for on-site troubleshooting
  - Housed in its own O-ring sealed weatherproof case for maximum survivability and easy maintenance.

Operating supply voltage:	• 10.8 VDC to 16 VDC	**Frequency range:**	• GOES: 401.701 MHz - 402.09850 MHz • METEOSAT: 402.0355 MHz – 402.4345 MHz
Supported baud rates:	• 100 bps **EUMETSAT SRD** • 300 bps • 1,200 bps	**Frequency stability:**	• Initial Accuracy: +/-20Hz disciplined to GPS • GPS Schedule: 1 fix at power up, 1 fix per day thereafter
Supply current (at 12 VDC):	• Idle: <3 mA • Transmitting: <2.6 A • GPS on: <50 mA	**Channel bandwidth:**	• 100 bps: 3KHz • 300 bps: 750 Hz • 1,200 bps: 1.5 KHz
Output power:	**GOES** • 300 bps: 6.3 W max • 1,200 bps: 6.3 W max **METEOSAT** • 100 bps: 14 W max	**Time-keeping:**	• < 100 microseconds initial accuracy, automatically synchronized to GPS • < 10ms per day drift without GPS • 28 day operation without GPS signal (after initial GPS synchronization)
GOES antenna:	• Power: 14 W max • Polarization: Right hand circular • Connector: N-Type Female	**Temperature range:**	• Operating: -40°C to +60°C • Storage: -55°C to +70°C
Recommended antenna:	• FTS Eon2 CS2 GOES Antenna Option	**GPS antenna:**	• Type: 3 V active • Connector: SMA female

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GSA Management System registered to ISO 9001 QMI-SAI Global Certified System

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