

DigiTrakIV

Desktop Satellite Demodulator for GOES, METEOSAT, & GMS



Description:

The Microcom Desktop **DigiTrakIV** demodulator enables users to receive DCS (Data Collection System) messages directly from GOES satellites. Optional configurations will also demodulate METEOSAT and GMS satellite signals. The **DigiTrak** demodulator is the same modern DSP (Digital Signal Processing) based technology that is used by NOAA at both the primary GOES DCS receive site at the Wallops Command & Data Acquisition (WCDA) station the backup site at NOAA's Satellite Operation Facility (NSOF).

The Desktop **DigiTrakIV** provides users with flexible system configuration options.

- Each **DigiTrakIV** enclosure may contain from one to four **DigiTrak** demodulators.
- Microcom's desktop **Dual Pilot Control Module (DPCM) DAMS-NT Interface Software** and will support up to four Desktop **DigiTrakIV** units capable of simultaneously receiving messages on up to 16 channels.



If a user's network grows beyond 16 channels, the existing investment in demodulators may be employed in the expandable **DAMS-NT DigiTrak** configuration. (see separate data sheet).

Microcom's **DigiTrak** DRGS equipment is the only GOES DCS system that was designed per NESDIS requirements and has undergone the stringent testing and certification required by

NOAA for use in the GOES DCS. As a result, users of any of Microcom's **DigiTrak** DRGS systems realize the numerous inherent benefits and features.

The **DigiTrakIV** DSP based demodulators were designed to be flexible and have enough computational overhead to support future GOES enhancements. The **DigiTrakIV** system is 100% GOES DCS compatible, both now and in the future. As the DCS system evolves so will Microcom's **DigiTrakIV** DRGS systems. This compatibility also extends to METEOSAT and GMS since due to reciprocal arrangements; these systems are also received by WCDAS. To support future enhancements, the **DigiTrakIV** is field upgradeable ensuring minimal downtime when upgrading.

Key Features:

- No post-processing latency. Messages can be received with less than 0.25-second separation.
- Message time stamping to the millisecond. Carrier, symbol sync, frame synch and measurement end times are all reported.
- Amplitude measurements to 0.01 dB.
- Frequency measurements (start & end) to ± 0.1 Hz.

Specifications:

- Compatibility:** GOES 100, 300, 1200 BPS, CS1 & CS2
METEOSAT, MTSAT
- Power:** 95-250 VAC, 47-63 Hz
10 Watts
- Case Size:** 7.25" W X 7.5" L X 2.5" H
- Weight:** 3 Lbs.

Options:

- Specify number of channels (1-4 per unit).
- Rack mount adapter kit.

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