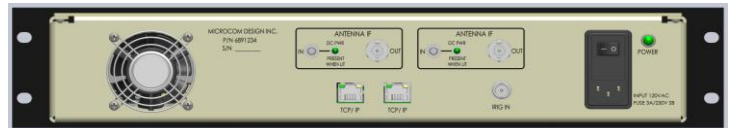




Microcom Design, Inc.

DAMS-NT *DigiRIT*

GOES DCS LRIT Direct Satellite Reception



Description:

The Microcom Data DAMS-NT receives the NOAA rebroadcast LRIT (Low Rate Information Transmission) signal, extracts the DCS portion and sends out a DAMS-NT data stream which is compatible with many DDS (DCS Data Service) applications and DRGS (Direct Readout Ground Station) systems.

A complete LRIT Receive system consists of an antenna with an integrated Feed, Low Noise Amplifier (LNA), and Block Down-converter (DCV); and the 2U rack-mounted DAMS-NT *DigiRIT* receiver. However, the DAMS-NT *DigiRIT* receiver was specifically designed to adapt to an existing DRGS; allowing the transition from DOMSAT to GOES by replacing only the receiver element to your existing DRGS.

The Microcom DAMS-NT *DigiRIT* system does not require a dedicated computer or special computer card to extract the DCS data stream from the LRIT broadcast. Instead the data is provided via a TCP/IP network connection using the industry standard DAMS-NT protocol (Version 8.1). This approach allows the DAMS-NT *DigiRIT* system to be directly connected to any computer system that supports the DAMS-NT protocol (e.g. LRGS).

The complete LRIT data stream is provided via a separate network connection for users who wish to extract other LRIT products, such as imagery or EMWIN.

Key Features:

- Meets existing NOAA LRIT 128 kbps operating requirements.
- Firmware upgradeable to NOAA HRIT 400 kbps when GOES-R satellites come online.
- Standard system includes 1.2 M parabolic antenna and mount, 100 feet of low-loss RF cable; integrated Feed/LNA/DCV; and the *DigiRIT* receiver.
- Receiver only system can directly connect to most GOES DCS DRGS systems.
- Direct DAMS-NT Version 8.1 output for DCS data.
- Second TCP/IP with complete LRIT data stream for imagery and other products.

Receiver Specifications:

- Dimensions:** 3.5" x 19" x 14"
- Weight:** 10.5 lbs
- Power:** 90-264 VAC @ 30 Watts
- 70 MHz IF Input:** 60 to 80 MHz
- 140 MHz IF Input:** 126 to 154 MHz
- Input IF Level:** -90 to -20 dBm

Standard Antenna Specifications:

- Diameter:** 1.2M
- G/T:** 4 dB
- Shipping Weight:** 100 lbs (with mount)

Ordering Information:

DigiRIT-SX Complete LRIT System

- SR: Ring Mount
- SP: Pole Mount (4" diameter)

DigiRIT-RX LRIT Receiver Plus

- RO: Receiver Only
 - For use with existing DRGS Systems.
 - Please provide information on antenna and front-end so Microcom can ensure compatibility.
- RL: Receiver Plus LRIT Front-End
 - For user who wish to upgrade an existing antenna installation (e.g. DOMSAT).
 - May require custom mounting arrangement - not included.
- RD: Receiver Plus DRGS Front-End
 - For users who may wish to add a GOES DCS DRGS in the future.
 - Front end can be installed on existing antenna of 3.6M or larger (custom mounting may be required and is not included).
 - For additional cost, Microcom can supply/install a DRGS antenna.



Optional Products/Services Available:

- Installation and training assistance.
- Adaptation of existing DOMSAT antenna.
- DRGS compatible system with 3.6M (or larger) antenna.

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