

# DAMS-NT DigiRIT

# GOES DCS LRIT/HRIT Direct Satellite Reception





#### **Description:**

The Microcom DAMS-NT DigiRIT LRIT/HRIT (selectable) Receiver receives the NOAA rebroadcast LRIT (Low Rate Information Transmission) or the HRIT (High 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/HRIT Receive system consists of an antenna with an integrated Feed, Low Noise Amplifier (LNA), and Block Down-converter (DCV); and the 2U rackmounted DAMS-NT *DigiRIT* receiver. However, the DAMS-NT *DigiRIT* receiver was specifically designed to be added to an existing DRGS system; significantly lowering the cost to such users since only the receiver needs to be purchased.

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

## **Key Features:**

- Meets existing NOAA LRIT 128 kBPS and NOAA HRIT 400 kBPS operating requirements.
- 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/HRIT 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/HRIT System

• SR: Ring Mount

• SP: Pole Mount (4" diameter)

#### DigiRIT-RX LRIT/HRIT 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/HRIT 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.

July 2018



Microcom Environmental 10948 Beaver Dam Road Hunt Valley, MD, USA 21030 Tel: (410) 771-1070 Fax: (410) 771-0018 Email: sales@microcomdesign.com



Microcom Florida
Air-Sea Monitoring Systems
656-E Capital Circle, NE
Tallahassee, FL, USA 32301
Tel: (850) 325-1865
Email: sales@microcomdesign.com



Microcom Canada Omnimetrix 3465 Rue Ashby Saint Laurent, QC H4R 2K3 Tel: (514) 684-1004 Fax: (514) 697-0400 Email: roger@omnimetrix.com



Microcom Brazil
SIMTECH Representações Ltda
Praça Pio X, 55 – SI 903, Candelária
Rio de Janeiro, RJ 20040-020, Brasil
Tel: 21 2506 5900
Fax: 21 2240 1242
E-mail: simtech@simtech.com.br