

MODEL

# DDM-800



The DDM-800 is a compact, one rack-unit, 8VSB Frequency Agile Demodulator capable of demodulating four (4) independent DTV RF signals, when fully loaded, and converting them to DVB-ASI output format. These MPEG-2 output streams can then be locally decoded, analyzed, multiplexed or passed to a cable facility via QAM modulators or to a data distribution network.

The DDM-800 front panel interface enables quick setup through direct entry keypad and navigation keys. The front panel indicates the current channel number or the center frequency. The status display for each demodulator shows SNR, Bit Error Rate (BER), and fine tuning offset.

External communications supports configuration through an intuitive Web Browser GUI via the 10/100 Base-T Ethernet connection. The resident SNMP agent enables straightforward integration into Headend, Station, or Uplink network control and monitoring systems with real-time clock for time stamp on alarms.

The DDM-800 has the flexibility to add three optional demodulators (DDM-Opt-801) to its base unit, providing a space efficient and economical solution for Cable, Satellite and Broadcast facilities.

## Features and Options

- High Demodulator Density: Four ATSC Receivers in compact 1RU package
- No space required between units when rack mounting
- Factory or Field installed modules (Single Demodulator is standard)
- Most advanced 8VSB demodulation technology available
- Tunes 54 - 860 MHz, Channels: 2 - 69 (Off Air)  
Channels: 2 - 134 (Cable)
- Ethernet communications, Web Browser, and SNMP support with Alarm Time Stamp
- Real-time clock with battery backup, instant memory save feature for all settings
- Front panel controls with direct entry keypad
- Front panel LCD display with Backlight
- Power and Summary Alarm LED indicators
- Universal, Multi-drop Serial port
- Programmable GPI Alarm outputs
- Standards available: ATSC

## OPTIONS

- Ability to add additional 8VSB Demodulators to 1RU base unit, DDM-Opt-801

# DDM-800 SPECIFICATIONS

## **TUNER**

### **TUNING RANGE:**

Tunes frequencies from 55 to 860 MHz (VHF Channel 2-13, UHF Channel 14-69) (Cable Channel 2-134)

### **INPUT RANGE:**

-24dBmV to +29dBmV

### **FINE TUNING RANGE:**

±2 MHz in 64 steps  
(62.5 kHz increments)

### **CONNECTOR:**

"F", female, 75Ω

## **ASI OUTPUT**

### **DATA RATE:**

270 Mb/s

### **VOLTAGE LEVEL:**

800 mV p-p ±10%

### **D.C . OFFSET:**

±0.5 VDC

### **RISE TIME:**

<1.2 ns (20% to 80%)

### **CONNECTOR:**

BNC, 75Ω female

## **REMOTE CONTROL**

### **COMMUNICATIONS:**

Ethernet

### **SUPPORTED RATES:**

10/100 BaseT

### **CONNECTOR:**

RJ-45, female

### **INDICATORS:**

Network Activity  
Link

### **COMMUNICATIONS:**

RS-232/422 selectable

### **SUPPORTED BAUD RATES:**

9600, 19200, 38400, 57600,  
115200

### **CONNECTOR:**

9-pin D-sub, female

## **GPI**

Four fully programable GPOs

Notification of:

Loss of Power

Data Link Integrity

High Temperature Alarm

Carrier Unlock, by Demod

BER Alarm, by Demod

SNR Alarm, by Demod

Relay contact closure 0.35 A @

30VDC

Absolute maximum current 1.0 A

## **POWER REQUIREMENTS**

### **INPUT:**

90-264 VAC, 50/60 Hz

### **CONSUMPTION:**

45 VA, maximum

## **ENVIRONMENTAL**

### **OPERATING TEMPERATURE:**

0° to +50° C

### **STORAGE TEMPERATURE:**

-40° to 65° C

### **HUMIDITY:**

90% maximum (non-condensing)

## **MECHANICAL**

### **DIMENSIONS:**

Height: 1.75" (4.5 cm)

Width: 19" (48.3 cm)

Depth: 19.5" (49.6 cm)

### **WEIGHT:**

7.54 lb (3.42 kg)

## **STANDARD**

### **ACCESSORIES**

Operation & Service Manual

Power cord

Rackmount Kit

## **OPTIONS**

DDM-Opt-801, 8VSB Demodulator with  
single ASI output.

(Three additional allowed per base  
unit)