

DDM6800+D

Digital Demodulator Module



The DDM6800+D digital demodulator module provides a cost-effective solution for off-air or cable reception of 8-VSB, 64 QAM and 256 QAM modulated signals. Packed with a rich list of features, the DDM6800+D is capable of receiving 8-VSB off-air, or 64 QAM and 256 QAM (Annex B) clear modulated RF signals and provides an industry-standard ASI output for distribution or decoding.

The DDM6800+D is fully interoperable with other modules in the extensive Harris® 6800+™ core processing platform. When used with the MFD6800+ module, the DDM6800+D forms the front end of a cost-effective, multiformat off-air or cable receiver/decoder. Alternatively, when used with the IPA6800+, the DDM6800+D allows for the distribution of program streams anywhere over a Wide Area Network (WAN).

FEATURES

- Tuner supports the following modulation types:
 - 8-VSB
 - 64 QAM (clear)
 - 256 QAM (clear)
- One F-type RF input
- 55 to 860 MHz input frequency selection
- Input level:
 - 8-VSB: -14 dBmV to +29 dBmV
 - 64 QAM: -12 dBmV to +12 dBmV
 - 256 QAM: -9 dBmV to +12 dBmV
- VHF/UHF channels: 2-69
- Cable standard channels: 2-134
- Control using CCSP

IMAGES/DIAGRAMS

Back Module



SPECIFICATIONS

Specifications and designs are subject to change without notice.

Demodulator

| | |
|-----------------|---------------------------|
| Connectors | One F-Type |
| Input Impedance | 75 ohms |
| Modulation | 8-VSB, 64 QAM and 256 QAM |
| Frequency Range | 55 to 860 MHz |

ASI Output

| | |
|--------------|--------------------------------------|
| Connector | Two BNC |
| Clock Rate | 270 MHz |
| Logic Levels | 800 mV p-p $\pm 10\%$ |
| DC Offset | 0 +/- 0.5 V DC |
| Rise Time | ≤ 4 ns 20% to 80% of peak value |
| Jitter | ≤ 2 ns |

Operating Temperature

41° to 113° F (5° to 45°C)

Physical Specifications

6800+ back module uses two (of 20) slots, RoHS compliant

Power Dissipation

Power consumption <6 W max

Frames Supported

FR6802+XF, FR6802+XF48, FR6802+QXF and
FR6800+MB

IMPORTANT: Certain module combinations may exceed the power and heat dissipation capabilities of the frames. The DDM-6800+D digital demodulator double-slot card for the 6800+™ series frames includes the rear connector.

Provided by: Mega Hertz 800-883-8839 sales@go2mhz.com www.go2mhz.com