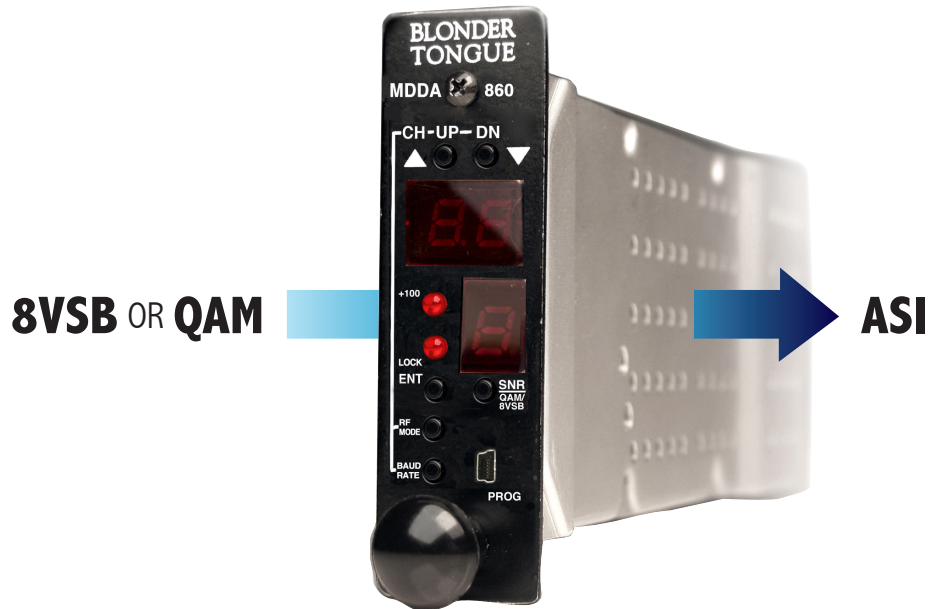


The MDDA-860 is a digital demodulator and transcoder that receives one input in ATSC 8VSB (digital off-air) or “clear” QAM (digital cable) format and delivers one output in ASI format.



FEATURES

- Input standards supported are digital off-air (8VSB) and digital cable (ITU-B QAM 64 and 256)
- Die-cast Chassis Offers Superior Protection against Ingress or Egress
- Demodulates & transcodes HDTV/SDTV digital signals to ASI
- Compact design allows for deployment of 12 units in 2RU
- On-site firmware updates available through front-panel

ORDERING INFORMATION

| Model | Stock # | Description |
|----------|---------|--|
| MDDA-860 | 6277 | ATSC/QAM-to-ASI Transcoder |
| MIRC-12V | 7715 | Rack Chassis (holds up to 12 modules) |
| MIPS-12D | 7722D | 110V/60Hz power supply (one per chassis configuration above) |



SPECIFICATIONS

INPUT

| | |
|------------------------------------|--|
| Connector: | "F" Female |
| Standards | |
| 8VSB: | ATSC Digital Television Standard A/53E |
| QAM: | ITU-T J.83 (64 and 256 QAM) |
| 8VSB Mode | |
| Tuning Range: | UHF (NTSC Ch. 14-78), VHF (NTSC Ch. 2-13) |
| Symbol Rate: | 10.762 Msymbols/sec |
| Bandwidth: | 6 MHz |
| QAM Mode | |
| Tuning Range: | CATV (NTSC Ch. 2-135) |
| Symbol Rate: | 5.3606 Msymbols/sec (QAM 256); 5.057 Msymbols/sec (QAM 64) – Auto Detect |
| Bandwidth: | 6 MHz |
| Single Channel Power Level: | -32 to +45 dBmV |
| 8VSB Power Level: | -20 to +30 dBmV |
| QAM Power Level: | -20 to +20 dBmV |
| Return Loss: | 12dB |
| Impedance: | 75 Ω |

OUTPUT

| | |
|-----------------------|--|
| Connectors: | |
| ASI: | 1 x F (equipped with F-to-BNC adapter) |
| ASI | |
| Standard: | DVB-ASI; 50083-9 |
| Data Bit Rate: | 270 Mbps |

GENERAL

| | |
|--------------------------------|--|
| Dimensions (W x D x H) | |
| MDDA-860 Modules: | 1.15 x 7.5 x 3.5 inches (29 x 191 x 89 mm) |
| MIPS-12D Power Supply: | 4.2 x 7.5 x 3.5 inches (106 x 191 x 89 mm) |
| MIRC-12V Chassis: | 19 x 12.0 x 5.25 inches (483 x 305 x 133 mm) |
| Power: | |
| MIPS-12CD Power Supply: | 100-240 VAC; 50/60 Hz |
| MIRC-4D Power Supply: | 100-240 VAC; 50/60 Hz |
| Power Dissipation: | 7 W (per MDDA module) |
| Weight: | 0.8 lbs (0.36 kg) |
| Operating Temperature: | 32 to 122 °F (0 to 50 °C) |
| Storage Temperature: | -13 to 158 °F (-25 to 70 °C) |
| Operating Humidity: | 0 to 95% RH @ 35 °C max, non-condensing |
| Storage Humidity: | 0 to 95% RH @ 35 °C max, non-condensing |

ALARMS/MONITORING/CONTROL

| | |
|--------------------------------|--|
| Front-Panel Indicators: | RF channel (2-digit LED display) Frequency/channel plan (1-digit LED display) +100 Channel (Red LED) SNR (2- & 1-digit LED displays) Lock LED (solid LED) No Lock (flashing LED) RF Mode (2- & 1-digit LED displays) Baud Rate (2- & 1-digit LED displays) Firmware revision (2-digit LED display) Software revision (2- & 1-digit LED displays) Unit reset (2- & 1-digit LED displays) |
| Front-Panel Control: | CH UP/DN push-buttons (increment major or minor channel up/down) ENT push-button (enters or confirms selection) RF Mode push-button (adjusts RF frequency plans) Baud Rate push-button (adjusts baud rates) SNR push-button (measures input signal-to-noise ratio) QAM/8VSB push&hold-button (toggles between QAM & 8VSB) RF Mode & Baud Rate simultaneously (unit reset) PROG (custom mini USB-to-RS232 interface for control) |

RELATED PRODUCTS

| Model | Description | Notes |
|----------|--|---------------------------|
| AQD | 8VSB/QAM-to-Composite Analog Demodulator | Eight Demodulators in 3RU |
| AQP | 8VSB/QAM-to-QAM Processor with subband input | 1RU |
| AQT | 8VSB/QAM-to-QAM Transcoder | Eight Transcoders in 3RU |
| DAP | 8VSB/QAM-to-Composite Analog Processor | 1RU |
| DHDP | Digital High Def. Processor | 1RU & 2RU |
| DQMx | 4x1 ASI and 8VSB/QAM-to-QAM Multiplexer | 1RU |
| MDDM-860 | ATSC/QRM Demodular | |