

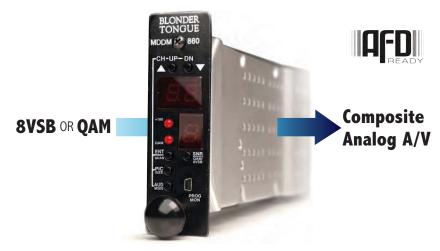


# A ]Wc 5HG7 #E 5A '8Ya cXi `Uhcf' %1', J G6'#E 5A'' '%1'5J

The MDDM-860 is a digital demodulator and decoder that receives one input in ATSC 8VSB (digital off-air) or "clear" QAM (digital cable) format and delivers one NTSC composite analog video and stereo audio output.

The unit allows delivering of a digital off-air program to viewers with an analog TV set. It also allows operators to cherry-pick channels from a clear QAM cable lineup.

Headends processing analog broadcasts using Blonder Tongue's MIDM demodulators and MICM modulators can be upgraded seamlessly to process digital broadcasts by simply replacing the MIDM with a MDDM.



## **FEATURES**

- Compact design allows for deployment of 6 channels (6 MDDM modules + 6 MICM modulators) in 2RU
- NTSC Composite Analog Video output is in 480i format and supports Closed Captioning (EIA-608)
- Input standards supported are digital off-air (8VSB) and digital cable (ITU-B QAM 64 and 256)
- Scans all 8VSB or QAM channels and stores in memory for quick channel selection
- Demodulates HDTV/SDTV digital signals to NTSC video and analog L/R audio
- On-site firmware updates/status monitoring available through front-panel
- Die-cast Chassis Offers Superior Protection against Ingress or Egress
- Adjustable picture sizes for 16:9 to 4:3 image conversion
- Supports Mono, Stereo, and SAP audio modes

### ORDERING INFORMATION

Model	Stock #	Description	7797D (1 of 6)		
MDDM-860	6273	ATSC/QAM Demodulator	( · • • • • • • • • • • • • • • • • • •		
MIRC-12V	7715	Rack Chassis (holds up to 6 MDDM + 6 MICM modulators)		T CHESTO E	
MIPS-12C	7722C	110 V/60 Hz power supply (one per chassis config. above)			E
MICM	7797D	Micro channel modulator			
			<b>^</b>	<b>^</b>	<b>^</b>
			6273	7722C	7715





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## **SPECIFICATIONS**

**INPUT** 

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

#### **OUTPUT**

Connector Video: Audio:	. Tomas
NTSC Composite Video Level: Flatness: Video to Noise Ratio: Differential Gain: Differential Phase: Format: Aspect Ratio: Closed Captioning:	1.0 dB p/v (30 Hz to 4.2 MHz) 70 dB ± 0.75% ± 0.50 degree 480i
L/R Analog Audio Level: Frequency Response: Audio Signal-to-Noise Ratio: Modes:	10.0 to 10.5 Volt Peak-to-Peak (at 0 dBFs input) 2.0 dB p/v (30 Hz to 20 kHz) 67 dB (at -20 dBFs input)

# GENERAL

Dimensions (W x D x H)	1.15 x 7.5 x 3.5 inches (29 x 191 x 89 mm)
Power:	110 VAC/60 Hz or 220 VAC/50 Hz
Power Dissipation:	7 W (per MDDM 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-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

#### ALARMS/MONITORING/CONTROL

Front-Panel Indicators:	Major program channel (2-digit LED display) Minor program channel (1-digit LED display) Channel scan (2- & 1-digit LED displays) +100 Channel (Red LED) SNR (2- & 1-digit LED displays) QAM LED (Red LED) No Lock (flashing QAM LED) Picture size (2- & 1-digit LED displays) Audio mode (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 Monitoring/Control:	CH UP/DN push-buttons (increment major or minor channel up/down) ENT push-button (enters or confirms selection) SCAN push & hold-button (initiates channel Scan) PIC SIZE push-button (adjusts picture size/aspect ratio) AUD MODE push-button (adjusts audio mode and closed captioning) SNR push-button (measures input signal-to-noise ratio) QAM/8VSB push&hold-button (toggles between QAM & 8VSB) ENT & SNR simultaneously (stops scan at anytime) PIC SIZE & AUD MODE simultaneously (unit reset) PROG MON (custom mini USB-to-RS232 interface for control & monitoring)