BLONDER TONGUE
LABORATORIES, INC.

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.

8VSB OR **QAM** ➤ **ASI**
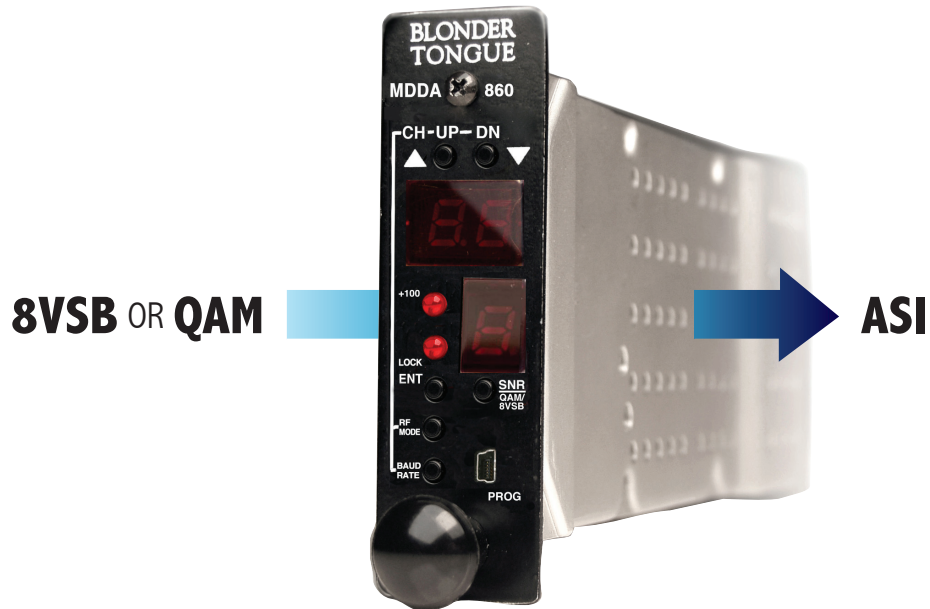
FEATURES

- 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-12C	7722C	110V/60Hz power supply (one per chassis configuration above)

6277
(1 of 12)

7722C   7715

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

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)

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 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

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