



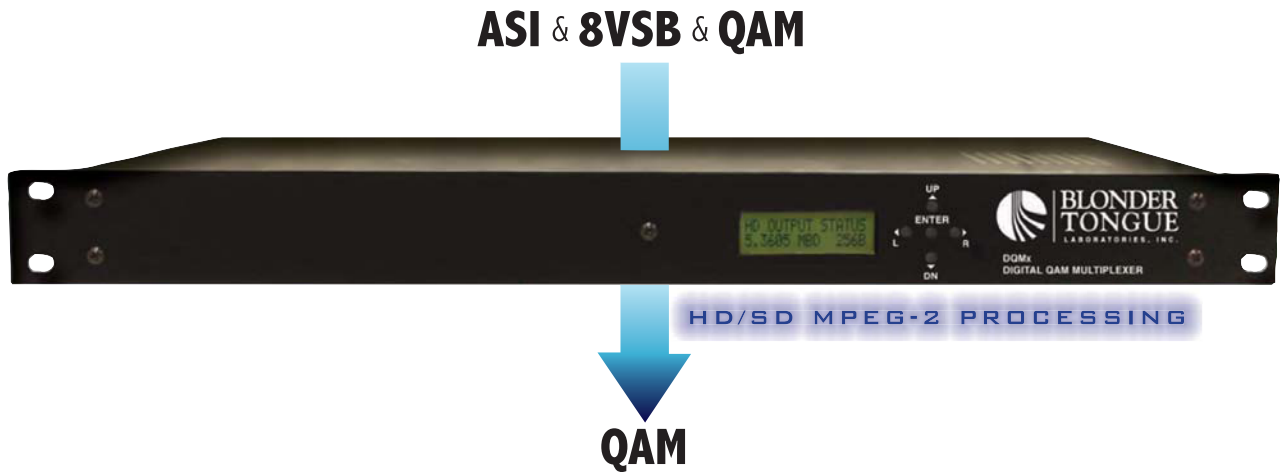
**BLONDER
TONGUE**
LABORATORIES, INC.

DQMx

DIGITAL QAM MULTIPLEXER 4x 8VSB/QAM/ASI ▶ 1x QAM

DQMx (Digital QAM Multiplexer) accepts up to four inputs in ASI, 8VSB, and QAM formats, and delivers one output in QAM format in the 54-864 MHz range. Two types of input modules are available (ASI and 8VSB/QAM), and any combination of input modules is allowed – for example, DQMx can be equipped with 2 ASI and 2 8VSB/QAM input modules.

Each ASI input module can process up to twelve channels, not to exceed 270 Mbps. Each 8VSB/QAM input module can process up to twelve channels, not to exceed 19.4 Mbps for 8VSB or 38.8 Mbps for QAM 256. The QAM-modulated output can contain up to twelve channels, not to exceed 38.8 Mbps when operating in QAM 256 mode.



FEATURES

- Maintains MPEG-2 mapping if the input ASI stream is removed and the same stream is added later (for example, after a power cycle)
- In addition to PAT, PMT, and MGT tables, supports the RRT, STT, and VCT tables of the MPEG-2 transport stream
- Automatically re-maps duplicate PIDs, program numbers, and minor channel numbers
- Maintains mapping with new PAT/PMT/MGT versions and same programming

ORDERING INFORMATION

Model	Stock #	Description
DQMx-XY	6259A XY	Digital QAM Multiplexer; Shipped with (X) ASI and (Y) 8VSB/QAM input modules For example: DQMx-31 (Stock No. 6259A 31) is factory-equipped and shipped with (3) ASI and (1) 8VSB/QAM input modules.
DQMx	6259A	Digital QAM Multiplexer; Mainframe only (requires input modules)
DQMx-RF	6256	8VSB/QAM input module
DQMx-ASI	6257	ASI input module



Order From:  **MULTICOM** 800-423-2594
www.multicominc.com
multicom@multicominc.com

DIGITAL COLLECTION MULTIPLEXERS



SPECIFICATIONS

INPUT

Connectors	ASI module: BNC Female 8VSB/QAM module: "F" Female
Standards	ASI: DVB-ASI; EN 50083-9 8VSB: ATSC Digital Television A/53E QAM : ITU-T J.83 - Annex A & B (64 and 256 QAM)
ASI Mode	Transport Rate: 270 Mbps (desired transport rate of 10.76 MSymbols/sec)
8VSB Mode	Tuning Range: VHF (NTSC Ch. 2-13), UHF (NTSC Ch. 14-69) Data Rate: 19.392 Mbps Bandwidth: 6 MHz Power Level: -20 to +20 dBmV
QAM Mode	Tuning Range: CATV (NTSC Ch. 2-135) Data Rate: 38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) – Auto Detect Bandwidth: 6 MHz Power Level: -15 to 20 dBmV (@ QAM 256) -20 to 20 dBmV (@ QAM 64)
	Impedance: 75 Ω

GENERAL

Dimensions (W x D x H):	19.0 x 14.3 x 1.75 inches (483 x 363 x 44 mm)
Power:	100 to 265 VAC/50 to 60 Hz (Fuse: 1 amp, 250 VDC, SloBlo)
Power Dissipation:	36 W (fully loaded with 4 input modules)
Weight:	5.1 lbs (2.31 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

RELATED PRODUCTS

Model	Description
HDE-ASI	1xHD/4xSD/NTSC-to-ASI Encoder; 2RU
SD4E-ASI	4x SD/NTSC-to-ASI Encoder; 2RU
SD10E-QAM	10x SD/AV-to-QAM Encoder; 2RU
AV10E-QAM	10x AV-to-QAM Encoder; 2RU
HDE-2H-QAM	2x HDMI/YP _b P _r -to-QAM Encoder; 1RU
HDE-2C-QAM	2x YP _b P _r -to-QAM Encoder; 1RU
AQM	ASI-to-QAM Modulator; Six modulators in 2RU
AQD	8VSB/QAM-to-Baseband Demodulator; Eight demodulators in 3RU
AQT	8VSB/QAM-to-QAM Transcoder; Eight transcoders in 3RU

OUTPUT

Connector:	"F" Female
QAM Modulation Modes:	16, 32, 64, 128, 256, 512, and 1024
DVB Symbol Rate:	Variable; 1 to 7 MSymbols/sec (Mbaud)
Frequency Range:	54 to 864 MHz
QAM Tuning	NTSC: Per channel's number from 2 to 135 PAL: Per channel's center-frequency (12.5 kHz increments)
RF Level:	+60 dBmV (120 dBμV)
RF Level LCD Screen Error:	± 2 dB
RF Level Adjustment Range:	50 to 60 dBmV
Frequency Tolerance:	± 0.5 kHz @ 77 °F (25 °C)
Frequency Stability:	± 5 kHz over 32 to 122 °F (0 to 50 °C)
Amplitude Flatness:	± 0.25 dB (over 6 MHz channel)
Phase Noise:	-98 dBc (@ 10 kHz)
Spurious:	-60 dBc
Broadband Noise:	-75 dBc (@ +60 dBmV output level, 4 MHz bandwidth)
Impedance:	75 Ω
Return Loss:	12 dB
Spectral Inversion:	Auto Recognition
Carrier Suppression:	55 dB
SNR:	Greater than 40 dB
MER:	Greater than 40 dB
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	Less than 1%
Encoding Profile	Video: MPEG 2 HD; ISO 13818-2; 1080i MPEG 2 SD; ISO 13818-2; 480i Audio: Pass through compress audio Does Not Support Closed Captioning

ALARMS/MONITORING/CONTROL

Local Monitoring:	Front-panel 16-character, 2-line LCD screen
Local Control:	Front-panel Navigational Key-pad
Remote Monitoring/Control:	Not available