



AQT8-QAM/IP

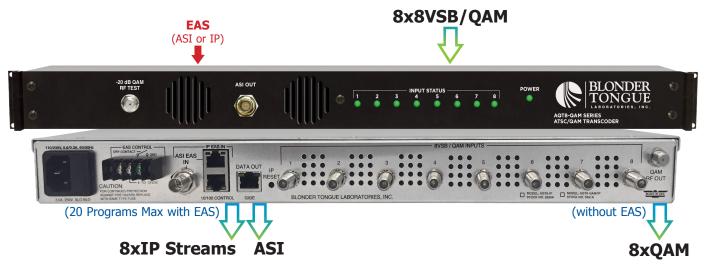
ATSC/QAM Transcoder 8xATSC/QAM Inputs QAM + IP Outputs with EAS

Through a high density, low-cost, flexible 1RU chassis, the **AQT8-QAM/IP** provides operators with a transcoding solution for multi-channel processing, reducing the equipment, space and power needed for QAM or IPTV distribution.

The **AQT8-QAM/IP** is especially designed to allow operators to create a custom channel line up from offair and/or cable feeds for coax or IP distribution. Additionally, the unit gives the user the ability to change the PID, Program #, Short Name, Major and Minor Channel (PSIP) information.

The unit accepts up to eight (8) 8VSB or QAM channel inputs, supporting up to 20 programs on each input, and 20 programs total on eight (8) customizable QAM/IP outputs.

The **AQT8-QAM/IP** features Emergency Alert System (EAS) program switching through either an ASI or IP format EAS input, and terminal block contacts for triggering EAS messages.



Features

- Accepts up to eight (8) RF inputs in 8VSB/QAM format
- Supports up to 20 programs on each input, and 20 programs total on the eight (8) customizable IP outputs
- Supports in-service monitoring of a selected output
 - One output TS can be sent to the front panel ASI for in-service monitoring of a selected output
 - A -20 dB QAM RF test connector is provided on the front panel to monitor the units output
- PSIP manipulation
- Performs IP network de-jitter, PCR (Program Clock Reference) replacement, null packet insertion and deletion
- Supports RTP/UDP and ARP, IGMPv2, ICMP protocols
- Supports EAS switching-based on contact closure trigger, or +5 to +12 VDC input
- Provides comprehensive GUI-based remote monitoring and control via any standard Web browser

Ordering Information

ModelStock #DescriptionAQT8-QAM/IP6281AATSC/QAM Transcoder; 8xATSC/QAM inputs; QAM + IP outputs with EAS





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Specifications

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Input			Output
Connectors	8VSB/QAM:	8x "F" Female	<u>IP</u> Cor
8VSB Mode	Standard: Tuning Range: Data Rate:	UHF (Ch. 14-69), VHF (Ch. 2-13)	Address Ass
	Bandwidth: Power Level: Impedance:	-20 to +20 dBmV	QAM Output Con Mo
QAM Mode	Standard: Tuning Range: Data Rate:	CATV Ch. 2-158 (STD, HRC, IRC) 38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) – Auto Detect	St DVB Sym Frequenc
	Bandwidth: Power Level: Impedance:	-15 to 20 dBmV (@ QAM 256) -20 to 20 dBmV (@ QAM 64)	Channels' Ba No. of P
Emergency A ASI		22 67	RF Level Adjustmen Frequency Te Frequency
IP	Connector: Standard:	1x BNC Female DVB-ASI; EN 50083-9 (SPTS)	Amplitude Phas
	Connector: Standard: UDP/RTP:	10/100Base-T	Broadbar Im QAM S
	Video Bit Rate:		Carrier Supp Retu Signal-to-Noise Rat
	jger Connectors: jger Mechanism:	at 2.5 Mbps will not work for a program at 2.0 Mbps. Terminal Block	I/Q Pha I/Q Amplitude Im

General

Dimensions (W x D x H):	19.0 x 16.0 x 1.75 inches (483 x 363 x 44 mm)	
Power:	110/230 VAC, 0.6/0.3 A, 60/50 Hz	
Power Consumption:	35 W	
Weight:	12 lbs (5.5 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	

AQT8 Series Model Comparison

Output				
<u>IP</u>	Connectors: Standard: UDP/RTP: Address Assignment:			
Sign	Output Modules: Connectors: Modulation: Standards: DVB Symbol Rate: Frequency Range: Tuning: Channels' Bandwidth: No. of Programs: RF Level evel Adjustment Range: Frequency Stability: Amplitude Flatness: Phase Noise: Broadband Noise: Impedance: QAM Spectrum: Carrier Suppression: Return Loss: al-to-Noise Ratio (SNR): MER: I/Q Phase Error: Amplitude Imbalance:	TU-T L83; Annex A and B Variable: up to 7 MSymbol/Sec (MBaud) 54 to 1002 MHz CATV Channel Selectable (H. 2 to 158) 2x 24 MHz (ax Adjacent 6 MHz) Variable (not oxceed 38.8 Mbps, Pass-thru of input source) +40 dBmV, ± 1 dB increment +35 to +42 dBmV, 1 dB increment ± 0.5 KHz Q07 7° (2 or C) ± 0.5 KHz Q07 7° (2 or C) ± 5 KHz over 32 to 122 °F (0 to 50 °C) ± 0.5 CHZ ($\oplus 10$ KHz) -60 dBc -70 dBc ($\oplus 135$ dBmV output level, 5.5 MHz bandwidth) 75 Ω Inverted 45 dB 14 dB typical 40 dB typical Less than 1 degree		
<u>ASI</u>	Connector: Standard:	1x BNC Female DVB-ASI: EN 50083-9		

Alarms/Monitoring/Control

Local Monitoring: Local Control:	8 Channel LEDs 1x Power LED 1x IP Reset Button
Remote Monitoring/Control:	GUI-based menu via standard Web browser (1x RJ45 rear panel connector; 10/100Base-T)

Stk. #	Model		Input	QAM Output	IP Output
6280A	AQT8-IP		8VSB or	Not Applicable	Customizable IP Output
			Clear QAM		 8 IP Outputs with EAS*
					 Program selectable from input
					 20 Programs Max
					 PSIP Manipulation
		IP	8VSB or	Not Applicable	 8 IP Outputs (No EAS or ASI)
		Pass-Thru	Clear / Encrypted		No Program Selection
		Mode	QAM		One input maps to one TS
6281A	AQT8-QAM/IP		8VSB or	Selectable 8 QAM Outputs / IP Modes (with EAS)	Customizable IP Output
			Clear QAM	Pass-thru Output - Default RF (No EAS or Program Selection)	 8 IP Outputs with EAS*
				PSIP Manipulation	 Program selectable from input
					 20 Programs Max
					 PSIP Manipulation
		IP	8VSB or	8 QAM Outputs (No EAS)	8 IP Outputs (No EAS or ASI)
		Pass-Thru	Clear / Encrypted	No Program Selection	No Program Selection
		Mode	QAM	One Input Map to One TS	One Input Map to One TS

* EAS stream will replace the input stream (clear or scrambled) and will remain unchanged. For example, if a clear EAS stream replaces a scrambled input stream, the output will be a clear EAS stream.

Specifications Subject To Change Without Notice

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