



AIRCASTER® AQT8-IP

ATSC/QAM TRANSMODULATOR

KEY FEATURES

- » Encrypted QAM sources can be mapped to IP MPTS or SPTS formats in Pass-through mode for Remote PHY and Switch Digital applications
- » Accepts up to **eight** RF inputs in 8VSB/QAM format
- » Provides one common 8VSB (ATSC 1.0) / QAM input port with an internal active splitter
- » **NEW** - Supports **SRT Error Correction** for Remote IP Applications
- » PSIP manipulation (PID, program number, short name, and major/minor channel)
- » Accepts EAS input in ASI or IP formats
- » Supports EAS switching-based on contact closure trigger, or +5 to +12 VDC input



PRODUCT OVERVIEW

The **Aircaster AQT8-IP** allows the user to create a custom IP and QAM output from off-air and/or QAM input sources. The unit accepts eight 8VSB off-air or QAM sources and simultaneously outputs these SPTS and/or MPTS programs in IP. At the same time, the **AQT8-IP** can be configured in Pass-through mode, which directly maps the demodulated RF port content in MPTS format to IP output.

The **AQT8-IP** can accept encrypted QAM sources, and output the encrypted IP transport streams programs in MPTS or SPTS formats, while preserving the MPEG tables (PAT, PMT, PSIP, VCT, and MGT) from the source. The unit allows the user to change the PID, program number, short name, and major/minor channel (PSIP) information on any program.

In addition, the **AQT8-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.

ORDERING INFORMATION



MODEL	STOCK#	DESCRIPTION
Aircaster AQT8-IP	6280B	ATSC/QAM Transmodulator; 8VSB/QAM input; Customizable IP output with EAS

INPUT	
CONNECTORS	
8VSB/QAM	8x "F" Female 1x Common "F" Female (with Internal Active Splitter)
8VSB MODE	
Standard	ATSC 1.0 Digital Television A/53E
Tuning Range	UHF (Ch. 14-83), VHF (Ch. 2-13)
Data Rate	19.392 Mbps
Bandwidth	6 MHz
Power Level	-20 to +20 dBmV
Impedance	75 Ω
QAM MODE	
Standard	ITU-T J.83 - Annex B (64 & 256 QAM)
Tuning Range	CATV Ch. 2-158 (STD, HRC, IRC)
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

EMERGENCY ALERT SYSTEM (EAS)	
ASI	
Connector	1x BNC Female
Standard	DVB-ASI; EN 50083-9 (SPTS)
IP	
Connector	1x RJ45
Standard	1000Base-T (GigE)
UDP/RTP	Supported (user-selectable)
Video Bit Rate	The EAS program bit rate must not exceed the lowest program video bit rate it will replace. Example: EAS at 2.5 Mbps will not work for a program at 2.0 Mbps.
TRIGGER	
Connectors	Terminal Block
Mechanism	5-12 VDC and Dry Contact Closure

OUTPUT (CUSTOMIZABLE)	
IP	
Connector	1x RJ45 (Rear Panel)
Standard	1000Base-T Ethernet (GbE)
UDP	Supported
Address Assignment	64x IPv4 SPTS address & port numbers 8x IPv4 MPTS address & port numbers
SRT STREAM PROTOCOLS	
Specifications	www.SRTalliance.org

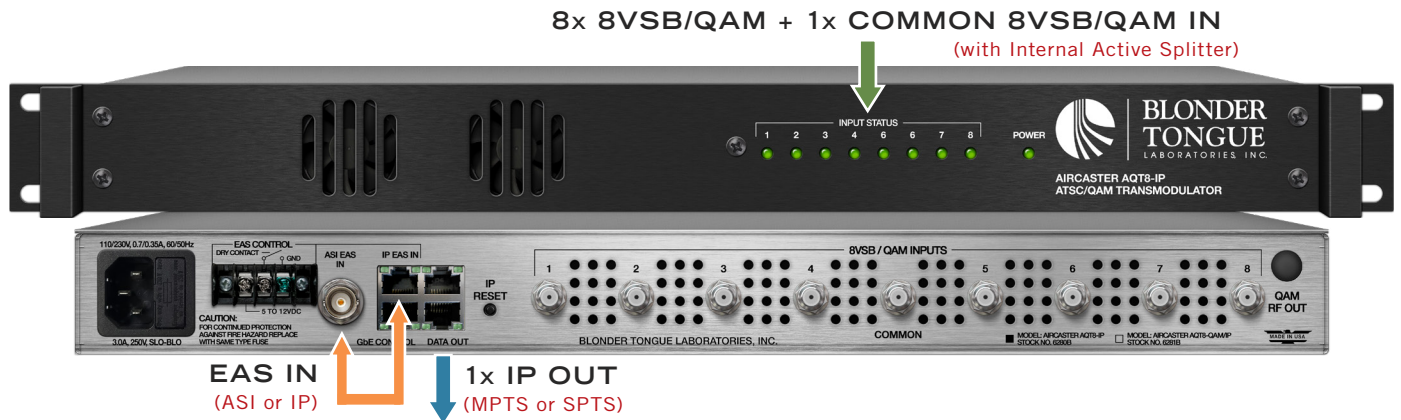
GENERAL	
Dimensions (W x H x D)	19.0 x 1.75 x 16.0 in (483 x 45 x 363 mm)
Weight	7.4 lbs (3.35 kg)
Power	110/230 VAC, 0.7/0.35 A, 60/50 Hz
Power Consumption	48 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating/Storage Humidity	0 to 95% RH @ 35 °C max, non-condensing

ALARMS & MONITORING	
Local Monitoring	8x Channel Status LED (Bicolor) 1x Power LED (Bicolor)
Local Control	1x IP Reset Button
Remote Device Control	1x RJ45 (1000Base-T GbE) GUI-based menu via standard web browser

AIRCASTER® AQT8-IP

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I/O OVERVIEW



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