

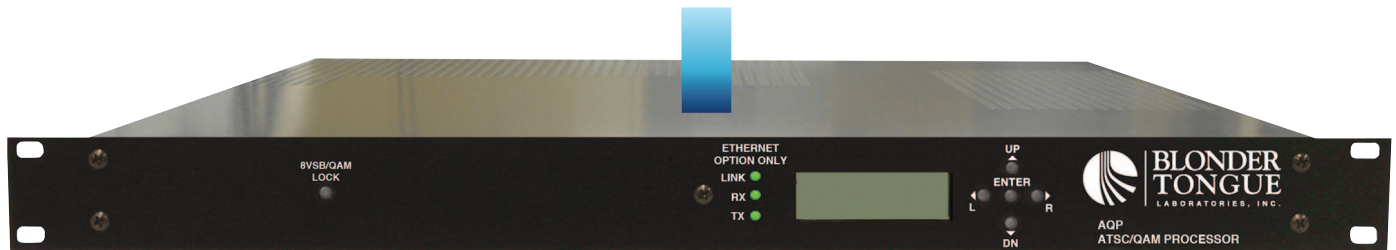


AQP accepts one input in 8VSB (digital off-air) or QAM (digital cable) format, including the sub-band QAM input channels T7 to T13, and delivers one output in QAM format in the 54-864 MHz range.

AQP can be utilized in a remote headend to “regenerate” a clean QAM channel from a degraded one. It also allows TV sets to receive digital off-air programming on CATV channel assignments by transmodulating the 8VSB broadcast to QAM.

It can also be utilized in remote digital origination applications, where the QAM channel needs to be delivered to the headend via the sub-band frequencies.

8VSB (2-13 VHF; 14-69 UHF)
OR
QAM (T7-T13; 2-135 NTSC)



QAM
Agile 54-864MHz (2-135 MHz)
+55 dBmV (115 dBmV)

FEATURES

- Supports sub-band QAM input channels T7 to T13 for remote digital origination applications
- Input standards supported are digital off-air (8VSB & 16VSB) and digital cable (QAM 16/32/64/128/206)
- Agile QAM output at +55 dBmV and in the frequency range of 54-864 MHz range

ORDERING INFORMATION

Model	Stock #	Description
AQP	6268	8VSB/QAM-to-QAM Processor with sub-band input

SPECIFICATIONS

INPUT

Connector:	"F" Female
Standards 8VSB/16VSB: QAM:	ATSC Digital Television A/53E ITU-T J.83 - Annex A & B (16, 32, 64, 128, and 256 QAM)
8VSB/16VSB Modes Tuning Range: Data Rate: Bandwidth: 8VSB Power Level: 16VSB Power Level:	UHF (NTSC Ch. 14-69), VHF (NTSC Ch. 2-13) 19.392 Mbps 6 MHz -28 to 20 dBmV -25 to 20 dBmV
QAM Mode Tuning Range: Data Rate: Bandwidth: Power Level:	CATV (NTSC Ch. T7-T13; 2-135) 38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) – Auto Detect 6 MHz -20 to +20 dBmV
Impedance:	75 Ω

OUTPUT

Connector:	"F" Female
QAM Modulation Modes:	16, 32, 64, 128, & 256
DVB Symbol Rate:	Variable; 1 to 7 MSymbols/sec (Mbaud)
Frequency Range:	54 to 864 MHz
QAM Tuning NTSC: PAL:	Per channel's number from 2 to 135 Per channel's center-frequency (12.5 kHz increments)
RF Level:	+55 dBmV \pm 1 (115 dB μ V \pm 1)
RF Level LCD Screen Error:	\pm 2 dB
RF Level Adjustment Range:	45 to 55 dBmV
Frequency Stability:	\pm 5 kHz over 32 to 122 °F (0 to 50 °C)
Frequency Tolerance:	\pm 0.5 kHz @ 77 °F (25 °C)
Amplitude Flatness:	\pm 0.25 dB (over 6 MHz channel)
Phase Noise:	-98 dBc (@ 10 kHz)
Spurious:	-60 dBc
Broadband Noise:	-75 dBc (@ +55 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%

GENERAL

Dimensions (WxDxH):	19 x 18.125 x 1.75 inches (483 x 460 x 44mm)
Power:	105 to 135 VAC/50 to 60 Hz (Fuse:1 A, 250 VDC, SloBlo)
Power Dissipation:	23 W
Weight:	7 lbs (3.2 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

Indicators 8VSB/QAM:	Lock Status (Green LED)
Local Monitoring: Local Control:	Front-panel 16-character, 2-line LCD screen Front-panel Navigational Key-pad Sub-band input on/off switch
Remote Monitoring/Control:	Not Available

RELATED PRODUCTS

Model	Description
HDE-QAM	HDMI-to-QAM Encoder; 1RU
DQMx	4x1 ASI/8VSB/QAM-to-QAM Multiplexer; 1RU
AQT	8VSB/QAM-to-QAM Transcoder; Eight modules in 3RU
AQM	ASI-to-QAM Modulator with sub-band input; Six modulators in 2RU
DHDP	8VSB-to-IF-to-8VSB Processor; 12 modules in 2RU