advanced media technologies®

MODEL

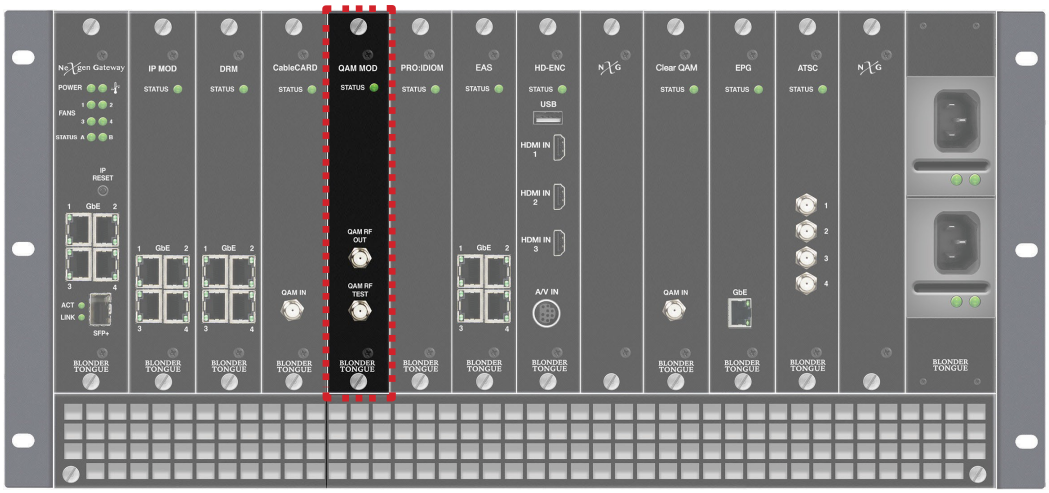
NXG-32-CH-QM

QAM MODULATOR MODULE

Blonder Tongue

The **NXG-32CH-QM (QAM Modulator Module)** is part of the Blonder Tongue NeXgen Gateway (NXG) platform. The **NXG-32CH-QM** multi-channel QAM Modulator provides up to 32 QAM 256 channels. All 32 output channels are fully agile from 54 to 1002 MHz, with the requirement that all channels must be within a 768 MHz frequency span. Each program can be configured to support a customized channel lineup for desired locations.

NeXgen Gateway



Features

- Provides reliable and secure HD programming in hospitality environments
- Can contain up to 3 audio streams and up to 11 additional PIDs for each video program
- Can be configured with both HD and SD programming in the same QAM channel
- Ability to change the PID, Program #, Short Name, Major and Minor channel (PSIP) information
- Provides fully independent QAM channels (no QAM channel blocks)
- Supports MPEG-2 and H.264 video

Ordering Information

Model	Stock #	Description
NXG-32CH-QM	6785	QAM Output Module - 32 Agile QAM Carriers

Made in U.S.A.

Rev: 071818
Blonder Tongue is ISO 9001:2015 Certified

3150 SW 15th St, Deerfield Beach, FL 33442 | www.amt.com | sales@amt.com

Call Us: 954.427.5711
Toll Free: 888.293.5856

Specifications

Output

Bandwidth:	2.2 Gb input transport streams from the NXG Mainframe back plane

General

Dimensions (W x D x H):	1.15 x 15.5 x 7.0 inches (29 x 394 x 178 mm)
Power:	Via NXG Mainframe back plane
Power Consumption:	32 W
Weight:	2.0 lbs (0.9 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

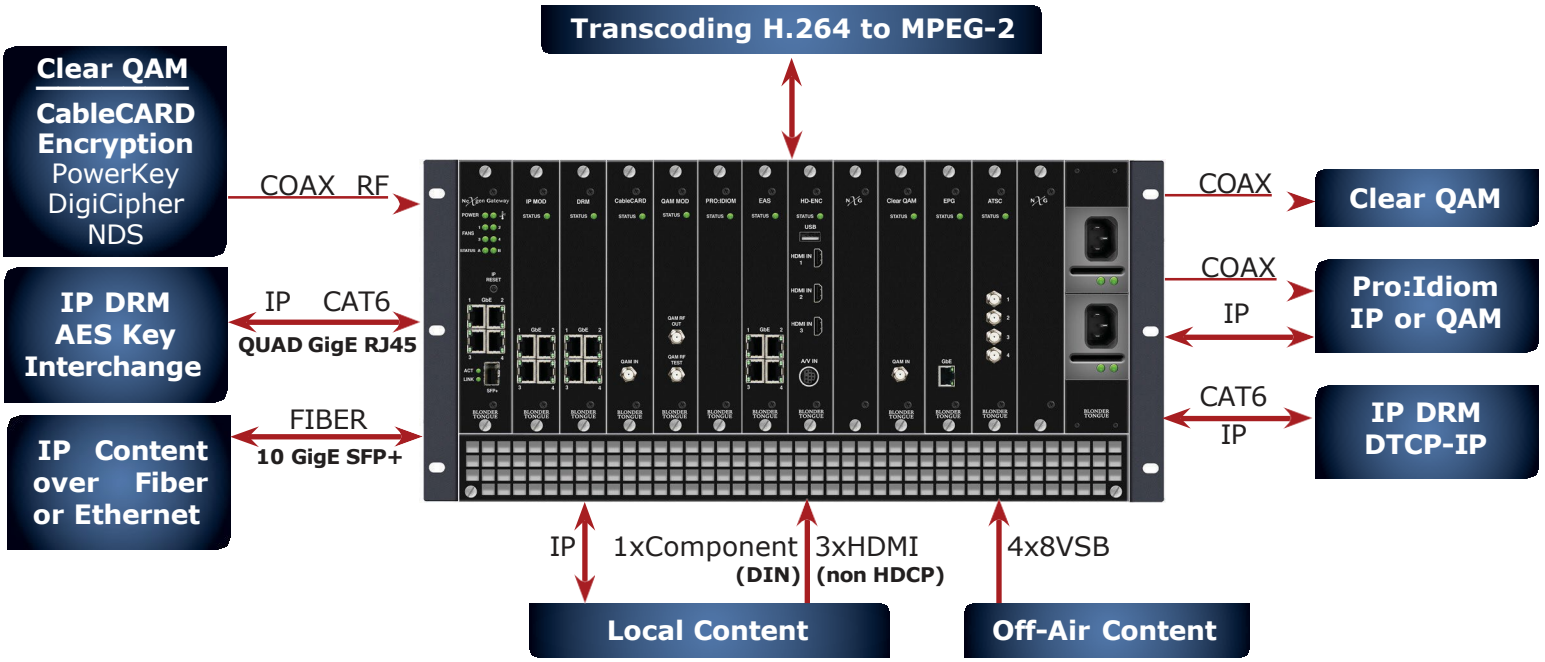
Input

QAM	
Connector:	1x "F" Female (Front-panel; for combined output)
Modulation:	QAM256
Standards:	ITU-T J.83; Annex A and B
DVB Symbol Rate:	Variable; up to 7 MSymbol/sec (MBaud)
Frequency Range:	54 to 1002 MHz (all ch.'s within 768 MHz span)
Tuning:	CATV Channel Selectable (CH.2 to 158)
RF Level:	+45 dBmV (per channel)
Output Level Range:	30 to 45 dBmV (all configured channels)
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
Impedance:	75 Ohm
Return Loss:	14 dB typical
Signal-to-Noise Ratio (SNR):	40 dB typical
MER:	39 dB typical
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	Less than 1%

Alarms/Monitoring

Front Panel Indicator:	1x Status LED
Monitor Output:	RF Out Test (-20 dB) connector

System Overview



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