

# BYL[ Yb'; UYk UmBL; !' &7 <!EA QAM Output Module



The NXG-32CH-QM (QAM Output 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.

## Features

- Provides reliable and secure HD programming in hospitality environments
- Can contain up to 3 audio streams and up to 11 extra 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 number, short name, major/minor channel (PSIP) information
- Provides fully independent QAM channels (no QAM channel blocks)
- Supports MPEG-2 and H.264 video
- Multiplexes SPTS programs to MPTS for QAM distribution
- Continuous Wave (CW) mode easily aligns headend level
- -20 dB RF test point

## Input

<b>Bandwidth:</b>	2.2 Gb input transport streams from the NXG Mainframe Backplane
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## Alarms & Monitoring

<b>Front Panel Indicator:</b>	1x Status LED (Green)
<b>Monitor Output:</b>	RF Out Test (-20 dB) connector

## Output

<b>QAM</b>	
<b>Connector:</b>	1x "F" Female (Front-panel; for combined output)
<b>Modulation:</b>	QAM 256
<b>Standards:</b>	ITU-T J.83; Annex A and B
<b>DVB Symbol Rate:</b>	Variable; ≤ 7 MSymbol/sec (MBaud)
<b>Frequency Range:</b>	54 to 1002 MHz (all Ch.'s ≤ 768 MHz)
<b>Tuning:</b>	CATV Channel Selectable (Ch. 2 - 158)
<b>RF Level:</b>	+45 dBmV (per channel)
<b>Output Level Range:</b>	30 to 45 dBmV (all configured channels)
<b>Frequency Tolerance:</b>	± 0.5 kHz @ 77 °F (25 °C)
<b>Frequency Stability:</b>	± 5 kHz over 32 to 122 °F (0 to 50 °C)
<b>Amplitude Flatness:</b>	± 0.25 dB (over 6 MHz channel)
<b>Phase Noise:</b>	-98 dBc (@ 10 kHz)
<b>Spurious:</b>	-60 dBc
<b>Impedance:</b>	75 Ω
<b>Return Loss:</b>	14 dB typical
<b>Signal-to-Noise Ratio (SNR):</b>	40 dB typical
<b>MER:</b>	39 dB typical
<b>I/Q Phase Error:</b>	Less than 1 degree
<b>I/Q Amplitude Imbalance:</b>	Less than 1%

## General

<b>Dimensions (W x D x H):</b>	1.15 x 15.5 x 7.0 inches (29 x 394 x 178 mm)
<b>Power:</b>	Via NXG Mainframe Backplane
<b>Power Consumption:</b>	32 W
<b>Weight:</b>	2.0 lbs (0.9 kg)
<b>Operating Temperature:</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temperature:</b>	-13 to 158 °F (-25 to 70 °C)
<b>Operating/Storage Humidity:</b>	0 to 95% RH @ 35 °C max, non-condensation

## Ordering Information

<b>Model</b>	<b>Stock #</b>
NXG-32CH-QM	6785
<b>Description</b>	
QAM Output Module - 32 Agile QAM Carriers	