

NXG-32CH-QM

32 Channel QAM Output Module



Key Features

- » Reliable, secure HD programming
- » Up to 3 audio streams; up to 11 extra PIDs per program
- » Configurable with both HD and SD programming
- » Ability to change 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 output

Product Overview

The **NXG-32CH-QM** module is a multi-channel QAM modulator that 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.

Ordering Information

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

NXG-32CH-QM

32 Channel QAM Output Module

Module Specifications

Input	
Bandwidth	2.2 Gb transport streams from the NXG Mainframe Backplane

General	
Dimensions (W x H x D)	1.15 x 15.5 x 7.0 in (29 x 394 x 178 mm)
Power	DC via NXG Mainframe Backplane
Power Consumption	32 W
Weight	2.0 lbs (0.9 kg)
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

Alarms & Monitoring	
Front Panel	1x Status LED (Bicolor)
Monitor Output	RF Out Test (-20 dB) Connector

Output	
QAM	
Connector	1x "F" Female (front-panel; for combined output)
Modulation	QAM 256
Standards	ITU-T J.83; Annex A and B
DVB Symbol Rate	Variable; ≤ 7 MSymbol/sec (Mbaud)
Frequency Range	54 to 1002 MHz (all Ch.'s ≤ 768 MHz)
Tuning	CATV Channel Selectable (Ch. 2 - 158)
RF Level	+45 dBmV (per channel)
Output Level Range	30 to 45 dBmV (all configured channels)
Freq. Tolerance	± 0.5 kHz @ 77 °F (25 °C)
Freq. 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 Ω
Return Loss	14 dB typical
SNR	40 dB typical
MER	39 dB typical
I/Q Phase Error	Less than 1 degree
I/Q Amplitude Imbalance	Less than 1%

Related Product

Model	Stock #	Description
NXG-QAM32-ProIdiom-PT	6785 1	Pro:Idiom® Pass-Through Module