



NXG-AQR8

ATSC/QAM INPUT MODULE

NXG PLATFORM
MODULAR SYSTEM



KEY FEATURES

- » Receive OTA ATSC 1.0 RF signals, and simultaneously demodulate to IP for retransmission
- » Up to Eight OTA 8VSB or QAM-B tuners
- » All programs within the tuned channels are made available to the NXG backplane for additional processing.
- » PSIP and Closed-caption support
- » Intuitive, straightforward web interface
- » Full control, status, and alarm monitoring
- » Includes breakout Coaxial Cable F-Type to SMB Female

PRODUCT OVERVIEW

The **NXG-AQR8** is a receiver/input module that allows the user to ingest from off-air and/or QAM input sources. The unit accepts eight 8VSB off-air or QAM sources and simultaneously outputs these SPTS programs to the NXG backplane.

The **NXG-AQR8** can accept encrypted QAM sources, and output the encrypted IP transport streams programs to the NXG backplane.

The module supports up to eight QAM-256 outputs that are agile from 54 to 1002 MHz as long as all eight outputs are kept within a 768 MHz span.

ORDERING INFORMATION



MODEL	STOCK#	DESCRIPTION
NXG-AQR8	6787	ATSC/QAM Transmodulator; 8VSB/QAM input; QAM + IP output with EAS

NXG-AQR8
SPECIFICATIONS



INPUT	
CONNECTORS	
8VSB/QAM	8x “SMB” Female 1x Common “SMB” Female (with Internal Active Splitter)
8VSB MODE	
Standard	ATSC 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

OUTPUT	
IP	
UDP	SPTS to NXG Mainframe Backplane
TS Format	ISO 13818-1 SPTS on UDP/IP
Address Assignment	64x IPv4 SPTS address & port numbers

GENERAL	
Dimensions (W x H x D)	1.15 x 7.0 x 15.5 in (29 x 178 x 394 mm)
Weight	2.0 lbs (0.9 kg)
Power	DC via NXG Mainframe Backplane
Power Consumption	20 W
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)

