

# DQAM III ASI/Q™

**Professional Frequency Agile Digital QAM 64/256 Modulator with DVB-ASI In and QAM Annex B RF Out. Fully Meets or Exceeds All Industry (ITU) Standards. Supports Channels 2-69. Setup via Front Panel LCD. Enables Cable System Operators to Transmit Multiple Streams to their Digital Networks.**



## Features

- Input: ASI transport stream
- Excellent RF output
- Advanced coding as ITU-T (J.83) Annex B or optional Annex C
- Cost effective with simple set-up and operation
- Supports PCR re-stamping function
- User adjustable output level and frequency
- Front panel controls
- QAM Modulation setting (64, 256 QAM)
- PCR Jitter:  $\leq \pm 200$  ns
- Group Delay as  $\pm 20$  ns
- MER After Equalizer: 42 dB
- Phase Noise: VHF -105 dB@20 KHz, UHF -103 dB@20 KHz
- Frequency: 54 ~ 870 MHz
- Output Level: 50±5 dBmV
- Spurious output:  $\leq -63$  dB
- AQM ASI compatible

## Applications

- Cable and CATV over coax
- Schools and hotels over coax
- Digital signage over coax

## Overview

QAM is the RF modulation format used for cable in the U.S. This modulation format is designated by the ITU organization.

The DQAM III ASI/Q supports the modulating mode of ITU-T (J.83) Annex B or optional Annex C format for 64, 256 QAM. It features a built-in upconverter, plus user adjustable output level and frequency control via the front panel.

DVB-ASI is the industry accepted interface for professional modulators. ASI can carry a payload of 200 Mbps of MPEG-2, but keep in mind that QAM 256 can accommodate 38 Mbps of MPEG-2.

Output frequency is selectable in 12.5 MHz steps.



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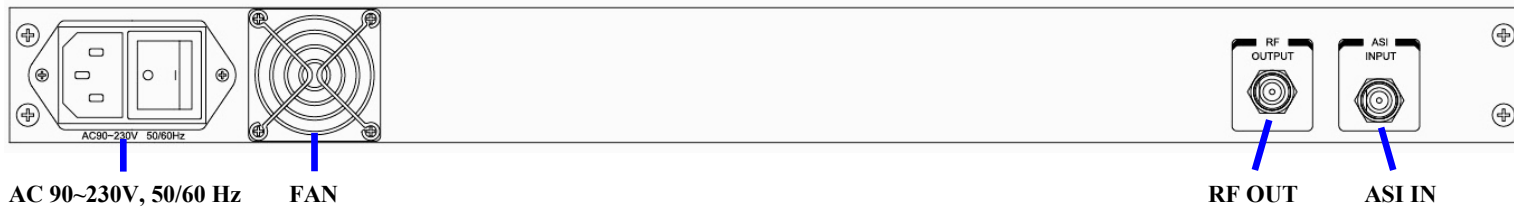
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# DQAM III ASI/Q™

## Rear View



## Specifications

### Digital Input

Transport Stream:	DVB-ASI
Connector:	BNC (75Ω)
Coding:	ITU-T (J.83) Annex B
Bit Rate:	1~52 Mbps
Packet Format:	188 Bytes
Symbol Rate:	1~7 Mbps
Modulation:	64, 256 QAM

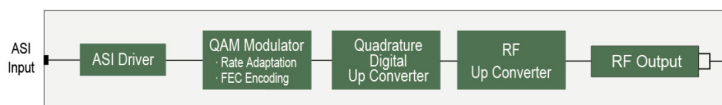
### QAM-RF Output

Output Frequency Range:	54~870 MHz
Impedance:	75Ω
Output Level:	55 ± 5 dBmV
Level Control Range:	0 ~ -15dB
Bandwidth:	6 MHz: Annex B
MER After Equalizer:	42 dB
MER Before Equalizer:	37 dB
Phase Noise:	VHF -105 dB@20 KHz VHF -103 dB@20 KHz
Adjacent Channel Carrier Attenuation Characteristic:	≥ 45 dB (Out-of-band)
Spurious Output:	≤ -63 dB
Return Loss:	≥ 15 dB
Group Delay:	± 2 ns
Frequency Response:	± 0.5 dB
Frequency Tolerance:	± 2 ppm
PCR Jitter:	≤ ± 200 ns

### Physical and Power

Power Requirements:	AC 90~230V, 50/60Hz
Power Consumption:	13W
Dimensions – WxHxD:	19 x 1.7 x 15 inches (482 x 44 x 383 mm)
Weight:	6.61 lbs. (3 Kg)
Conformities:	FCC, CE, RoHS

## Internal Block Diagram



## Ordering Info

DQAM III ASI/Q – QAM Modulator  
DQAM III ASI/C – DVB-C Modulator