



## QM-3000

QAM Modulator

**ACI** Communications, Inc. 

## Overview

The QM-3000 is a high-quality and cost-effective QAM modulator combining excellent RF specifications with extended transport stream processing and monitoring functionalities, all within a 1-RU device.

The QM-3000 QAM modulator supports a full range of variable bit rates and QAM constellations, while the up-Converter is fully agile allowing configuration to any CATV output frequency.

## Features

- Supports ITU-T J.83 Annex A & Annex B
- Supports up to 150 Mbps bit rate input
- Supports PMT PID filtering to remove un-needed programs
- Supports PCR jitter auto adjustment
- ASI transparent loop-through output
- Tunable output RF frequency with accuracy better than +/- 12.5 KHz
- Customized IF output
- Supports Remote Ethernet management

## Business Benefits

- Offers cost effective solution for small to medium DTV system applications
- Fully compatible with existing digital cable and MMDS systems
- Service & PID filtering capabilities eliminate the need for standalone multiplexer unit
- Remote Ethernet management minimizes operational expenses and learning curve

Specifications

ACI Communications, Inc.		QM-3000	
PARAMETERS	CONDITIONS	SPECIFICATION	NOTES
<b>Inputs</b>			
ASI Input Port		1	
ASI Interface		BNC connector	
Ethernet Input Port		1	
Ethernet Interface		RJ45	
Input Impedance		75Ω	
Input bit rate	Max.	150 Mbps	
Packet format		Auto detection 188/204 bytes packets	
<b>Outputs</b>			
ASI output port		1	
ASI Interface		BNC connector	
RF output		1	
Frequency Range		50 - 860 MHz	
Tuning step size	Min.	12.5Khz	
Frequency Accuracy		+/-12.5Khz	
Power Level		105 – 121dBm adjustable	
RF monitor output level		-20dB	
IF output		Customized	
<b>QAM signal</b>			
Symbol rate		1–6.999 MS/s	
QAM constellations		16 / 32 / 64 / 128 / 256	
MER		> 40 dB	
SNR		> 45 dB	
PCR jitter		< 100 ns	
<b>Control and Monitoring</b>			
Local	Front panel operation-LCD		
Remote	Network management software Ethernet 10/100 based on RJ45		
<b>Physical Characteristics</b>			
Power Voltage		AC90V-250V, 50/60 Hz	
Power Consumption	Max.	20W	
Rack Space		19" rack-1RU	
Dimensions	W x D x H	Unit: 484 x 274 x 44 mm Package: 580 x 570 x 210 mm	
Net weight		3.7 kgs	

ACI Communications, Inc. reserves the right to discontinue the manufacture or change the specifications without prior notice on any parts illustrated in the data sheet.

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