DT-ATSC-QAM-8V2

ATSC to QAM Converter

The DataTronix DT-ATSC-QAM-8V2 allows the operator to create a custom QAM distribution system output from ATSC off-air and/or QAM input sources. This unit accepts up to eight 8VSB over-the-air channels (including sub-channels), or clear QAM sources from a CATV feed, and outputs in QAM. The outputs can be mapped to desired TV channels.

The DT-ATSC-QAM-8V2 processes most major local broadcast networks that have a second or third local channel. These channels can contain important weather-related content, local sports, or secondary programming. Integrators who operate satellite-delivered TV systems will find this unit to be the perfect solution for adding external over-the-air or clear QAM content to their QAM distribution system.

As an added benefit, because the additional programming does not come from the satellite source, in the event of a satellite outage this unit will continue to deliver the additional programming to the property.

Key Features

- Accepts up to 8 RF inputs (ATSC-8VSB over-the-air or QAM)
- Up to 8 Independent QAM-B Outputs that can also carry digital sub channels
- Allows User to “Cherry Pick” Desired Programs as Needed
- Graphic User Interface for configuration
- Sources can be mapped to output QAM TV channels
- Front Panel LED Indicators
- Rack mountable 1RU height

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Input

RF Mode (ATSC-8VSB and QAM)	
Connector	1 x F-Type, Female
Input Impedance	75 ohm
Modulation	ATSC-8VSB ITU J.83 Annex B (64-QAM, 256-QAM)
Tuning Block Freq Range	55 to 861MHz (Center)
Bandwidth	6 MHz
Numbers of Tuner	8
Input Level	0 to 15dBmV
Loop Through	
Connector	1 x F-Type, Female, Passive

Output

QAM	
Connector	1x “F” Female
Modulation	256-QAM / 64-QAM
Standard	J.83 Annex B
Frequency Range	57 to 861 MHz (Under STD Mode) 8 Independent RF Frequencies
Channels’ Bandwidth	6 MHz
Output Level	45 dBmV Typical
Output Impedance	75 ohm
Level Adjustment	0 to -20 dB
VCN	Auto (Major & Minor) / Manual (Major & Minor) / Manual (One Part)
Carrier Suppression	55 dB
RF Output Return Loss	10 dB Typical
Signal-to-Noise Ratio (SNR)	42 dB Typical
MER	41 dB Minimum, 44 dB Typical

Web Management

GigE	
Connector	1 x RJ45
Standard	100 / 1000Base-T Ethernet, Full / Half Duplex, Auto-Negotiation
HTTP	Embedded

Emergency Alert System (EAS) (Optional)

GigE	
Connector	1 x RJ45
Standard	100 / 1000Base-T Ethernet, Full / Half Duplex, Auto-Negotiation
UDP / RTP	Supported (user-selectable)
Protocol	SCTE-18 Supported

Alarms / Monitoring

Local Monitoring	8 x NIM Status LEDs / 1 x Power LED
Local Control	IP Reset Button
GUI Supported	Firefox, Chrome
Password Protected	GUI: Changeable

Power

Power Supply	12VDC 5.4Amp.
Consumption	23 W Typical
Input Voltage Range	100 to 240 VAC

Mechanical and Environmental

Chassis (W x D x H)	19.01 x 9.45 x 1.74" (483 x 240 x 44.2 mm)
Weight	7.9 lbs
Operating Temperature	32 to 122°F (0 to 50°C)
Storage and Transportation Temperature	32 to 140°F (0 to 60°C)
Language	English
Warranty	1-Year Limited Warranty