

IP to QAM Quad Modulator

DekTec DTE-3114



- Four QAM-A/B/C modulators
- Agile over VHF/UHF up to 1GHz
- RTP with FEC decoding on each channel

KEY FEATURES

- Stand alone four channel QAM modulator with TS-over-IP (TSolP) inputs and directly synthesized VHF/UHF outputs
- 2D FEC decoder for IP error correction
- Web and SNMP interface for setting parameters and observing status
- Unit can be powered via the Ethernet cable (Power over Ethernet) or through a DC power supply jack
- Removal of IP jitter with programmable size of jitter tolerance buffer
- Full support of SMPTE 2022-1/2
- LCD status display shows device identifier, QAM mode, carrier frequencies, output level and IP/MAC address
- Install up to 12 modules in 3U 19" rack space using DekTec rack mountable rail

APPLICATIONS

- Cable-TV modulator with TSolP input
- QAM test generator

MODULATION

Modulation	Standard
QAM-A	EN 300 429 (DVB-C)
QAM-B	J.83 Annex B with support for all interleaver modes
QAM-C	J.83 Annex C

KEY ATTRIBUTES

Parameter		Value
Main RF port	Connector	75-Ω F Female
	Output level (total)	-32 to -9dBm
	Level accuracy	±1dB
Monitor port	Connector	75Ω F Female
	Output level (total)	-25.5±3dBm
RF	Range	32 to 1006MHz
	Channel spacing	5 to 8MHz
	Symbol rate	4.48 to 7.0MBd
	MER	43dB
GigE port	Physical layer	IEEE 802.3af
	Connector	RJ-45
Transport	TP per IP	1-7
	Encapsulation	UDP or RTP
	FEC	SMPTE 2022-1
Jitter tolerance range		1-20 ms

CONTROL

IP address assignment	DHCP or static
Multicast support	IGMP v2
Device management	browser based
Network management	SNMP v2c
Discovery	WS-discovery

ORDERING INFORMATION

Type	Description
DTE-3114	Networked Quad QAM Modulator