

UCrypt® IP to QAM with Pro:Idiom® Encryption: + \$

Features:

- ▶ UCrypt® IP to QAM product offering allows MSOs to ingest content from their IP video network, re-multiplex & encrypt it with Pro:Idiom® (or leave in-the-clear) for transmission via 64 or 256 QAM
- ▶ The UCrypt® IP to QAM allows MSOs to deliver digital content in a protected format into hospitality locations where set-top box deployment is not practical or desired
- ▶ The UCrypt® IP to QAM is ideal for applications where the end customer is connected directly via fiber or dedicated node to the headend or hub
- ▶ UCrypt® has an easy to use management interface which allows users to select programs to be encrypted with Pro:Idiom® and assign them to output QAMs at any frequency
- ▶ Product configuration can easily be saved & uploaded to other products so that mass deployment can be done in a reliable & efficient manner
- ▶ The HTTP based management interface allows operators to monitor, manage & configure the product remotely

UCrypt® IP to QAM Specifications

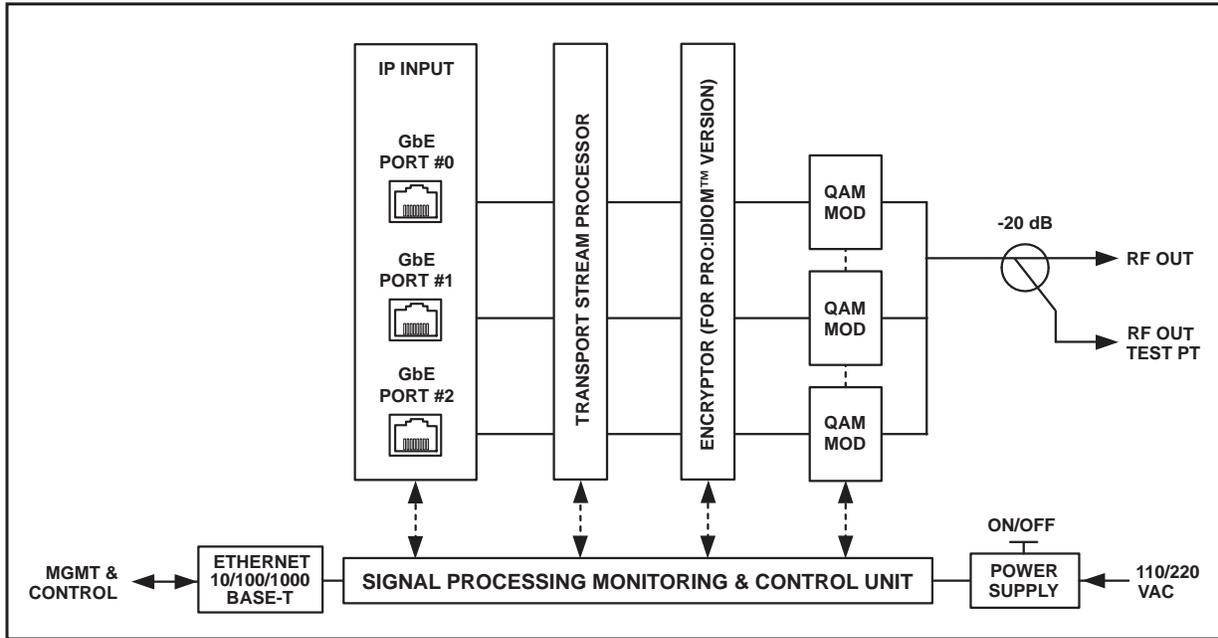
SPECIFICATIONS	
INPUT	
ETHERNET	IEEE 802.3-2002,1000BASE-T (GbE)
CONNECTORS	3 x RJ45; Chassis Rear
PHYSICAL PORT ADDRESS	Static IP Address or DHCP Client Mode per Port
TRANSPORT LAYER PROTOCOL	UDP
TRANSPORT STREAM SUPPORT	MPTS & SPTS
ADDRESSING	IPv4 Multicast & Unicast, Supporting all Valid IP Port Numbers
MULTICAST SUPPORT	Source Specific Multicast (SSM) and IGMP v1, 2 & 3
ENCAPSULATION	188 Bytes per TS Packet / 7 TS Packets per IP Packet
TS PROCESSING	
MULTIPLEXING CAPACITY	Flexible Creation of up to 24 SPTS and/or MPTS ⁽¹⁾ (38.8 Mbps max each) with PAT/PMT Generation per TS
ENCRYPTION	Pro:Idiom® Encrypted Multiplex or Unencrypted Multiplex
ENCRYPTION CAPACITY	Up to 24 SPTS and/or MPTS Multiplexes ⁽¹⁾ (38.8 Mbps max each)
OUTPUT	
RF	Up to 24 64QAM & 256QAM Channels ⁽¹⁾ in Groups of 4 Adjacent QAMs
FREQUENCY RANGE	54-864 MHz in 1 kHz Steps, Supporting STD, IRC, HRC
LEVEL	38 dBmV +/- 2 dB per Digital Carrier
MER	> 40 dB
CONNECTOR	F Connector; Chassis Rear
RF INPUT TEST	-20 dB Relative to Output; F Connector, Chassis Rear
DEVICE MANAGEMENT	
MANAGEMENT INTERFACE	Local or Remote Management Via Integrated Secure Web Server
MANAGEMENT INTERFACE PORT	10/100/1000BASE-T, Static IP or DHCP, RJ45, Chassis Rear
SECONDARY CRAFT PORT	10/100/1000BASE-T, Static IP, RJ45, Chassis Rear
MANAGEMENT SECURITY	3 Password Protected Tiered User Accounts
MASS DEPLOYMENT & BACKUP	Importable/Exportable Device Configuration Files
REMOTE MONITORING	Integrated SNMP Agent & MIB
ALARMS	Email Notification, SNMP Traps
EAS	
MODES	Support for ANSI/SCTE 18 Compliant & Non-Compliant Devices
PHYSICAL & ENVIRONMENTAL	
MECHANICAL	3RU, 19" Rack Mount: 5.25"H x 19.0"W x 22.8"D (13.34H x 48.26W x 57.91D cm)
POWERING	110/220 VAC; 1.7A @ 110 VAC; 375W PS; Rear IEC Connector (3-Conductor)
ELECTRICAL APPROVAL	Approved to UL 60950-1, 2nd Edition (File E325862)
POWER CONTROL	Rear Panel On/Off Switch w/ LED Indicator, Software Power Control
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)
HUMIDITY	0-95% Non-condensing
NOTE: (1) Depends upon ordered hardware options.	

+ Pro:Idiom® and Ceton are the property of their respective owners in the United States and/or other countries.

Specifications subject to change without notice.

UCrypt® IP to QAM with Pro:Idiom® Encryption:

Functional Schematic



Ordering Information

Part Number	Description
IP to PRO:I QAM	
UC24PIP	IP to 24 QAM; Prol Encryption
UC16PIP	IP to 16 QAM; Prol Encryption
UC8PIP	IP to 8 QAM; Prol Encryption
IP to CLEAR QAM	
UC24IP	IP to 24 QAM; Clear
UC16IP	IP to 16 QAM; Clear
UC8IP	IP to 8 QAM; Clear
UCQAM*	8 Channel QAM Modulator
NOTE:	
* F = unit returned to factory for upgrade; L = unit upgraded on site (requires purchase of UCUPGV - on site visit charge)	



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