



## 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
- ▶ Ideal for applications where the end customer is connected directly via fiber or dedicated node to the headend or hub
- ▶ Includes 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
- ▶ Powered by Ceton technology

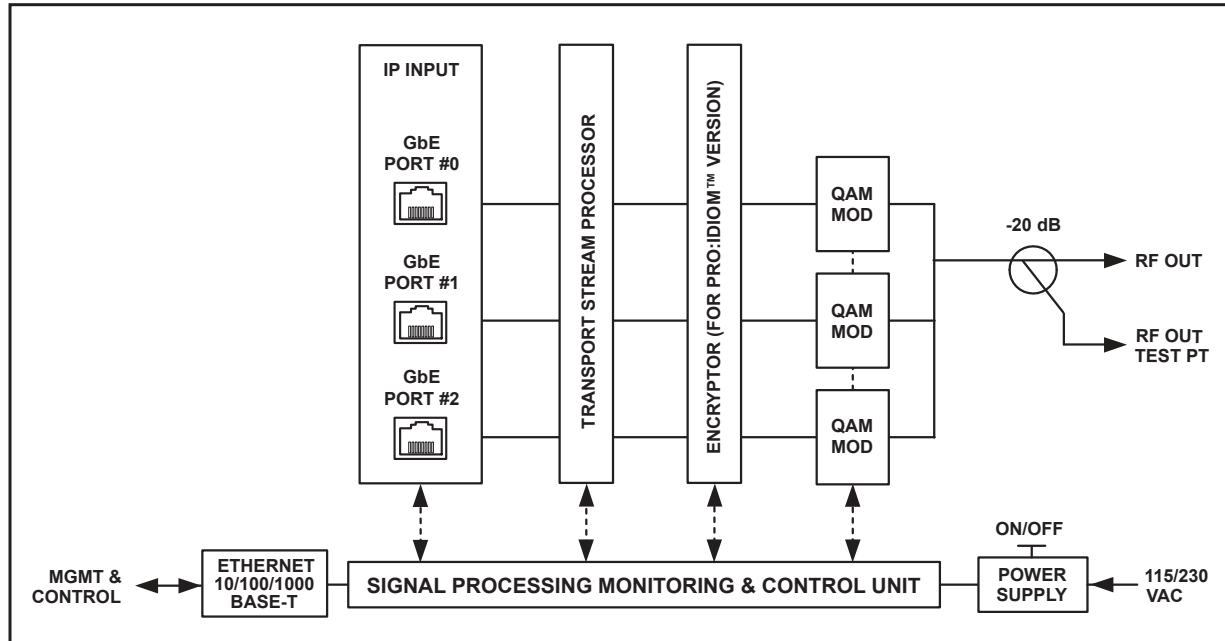
### UCrypt® IP to QAM Specifications

SPECIFICATIONS	
<b>INPUT</b>	
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
<b>TS PROCESSING</b>	
MULTIPLEXING CAPACITY	Flexible Creation of up to 24 SPTS and/or MPTS <sup>(1)</sup> (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 <sup>(1)</sup> (38.8 Mbps max each)
<b>OUTPUT</b>	
RF	Up to 24 64 QAM & 256 QAM Channels <sup>(1)</sup> in Groups of 4 Adjacent QAMs
FREQUENCY RANGE	54 MHz - 1 GHz 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
<b>DEVICE MANAGEMENT</b>	
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
<b>EAS</b>	
MODES	Support for ANSI/SCTE 18 Compliant & Non-Compliant Devices
<b>PHYSICAL &amp; ENVIRONMENTAL</b>	
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	2.5 Amps @ 115 VAC, 1.2 Amps @ 230 VAC, Voltage Selectable Fully Redundant 520W Power Supply Modules, Hot Swappable
ELECTRICAL APPROVAL	Approved to UL 60950-1, 2nd Edition (File E325862)
POWER CONTROL	Software Power Control
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)
HUMIDITY	0-95% Non-condensing
<b>NOTE:</b> (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.

## UCrypt<sup>®</sup> IP to QAM with Pro:Idiom<sup>®</sup> Encryption:

### Functional Schematic



### Ordering Information

Part Number	Description
<b>IP to PRO:IDIOM QAM</b>	
UC24PIP	IP to 24 QAM; Pro:Idiom Encryption
UC16PIP	IP to 16 QAM; Pro:Idiom Encryption
UC8PIP	IP to 8 QAM; Pro:Idiom Encryption
<b>IP to CLEAR QAM</b>	
UC24IP	IP to 24 QAM; Clear
UC16IP	IP to 16 QAM; Clear
UC8IP	IP to 8 QAM; Clear
UCQAM*	8-channel QAM Modulator
UCFAN	External Replacement Fan for UCrypt
<b>NOTE:</b>	
* F = unit returned to factory for upgrade; L = unit upgraded on site (requires purchase of UCUPGV - on site visit charge)	



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