



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

### Features:

- ▶ The UCrypt® QAM to IP product offering allows MSOs to decrypt select programs from their digital tier, re-encrypt them with Pro:Idiom® or leave them in-the-clear & re-transmit them over GigE-based IP protocol
- ▶ Perfect for providing content to commercial or hospitality environments with deployed IPTV systems or for use within other system architectures requiring Pro:Idiom based on in-the-clear content in IP format
- ▶ Includes an easy to use management interface which allows users to select programs to be decrypted &/or passed through to the output of the device and assign them to desired IP multicast addresses
- ▶ 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
- ▶ Built on a scalable architecture that allows operators to grow their service offering on an as-required basis
- ▶ Powered by Ceton technology

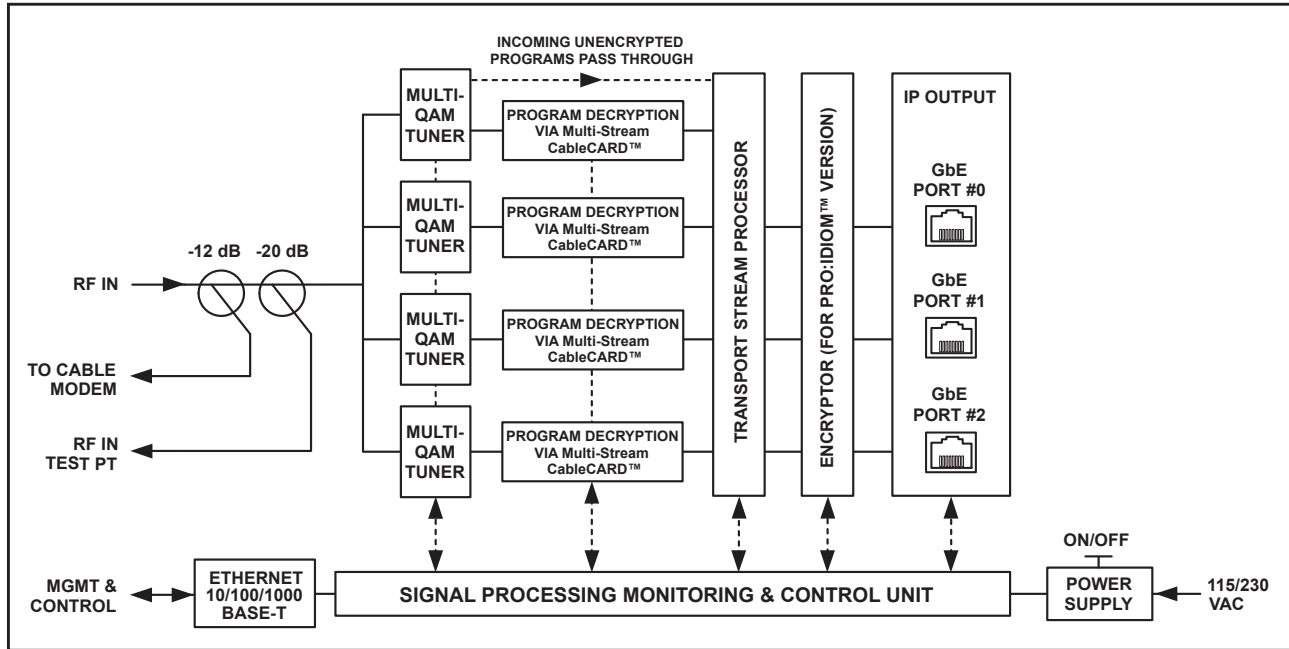
### UCrypt® Bulk QAM to IP Specifications

SPECIFICATIONS	
<b>INPUT</b>	
RF QAM	Up to 24 64 QAM & 256 QAM Tuners <sup>(1)</sup>
RF QPSK	Complies with ANSI/SCTE 55-1&2 2,048 Mbps & 1,544/3,088 Mbps, ANSI/SCTE 40
CONNECTOR	F Connector; Chassis Rear
FREQUENCY RANGE	54 MHz - 1 GHz in 1 kHz Steps, Supporting STD, IRC, HRC
ADJACENT QAM CHANNEL REQUIREMENT	None; All Tuners Individually Agile
RF INPUT	+5 to +10 dBmV per Digital Carrier
RF INPUT TEST	-20 dB Relative to Input; F Connector, Chassis Rear
<b>TS PROCESSING</b>	
PASSED CONTENT	Decrypt up to 24 Programs <sup>(1)</sup> Using up to 4 Multistream CableCARD™ Devices Remaining Unencrypted Content can be Transferred to the Device Output
CABLECARD DECRYPTION	Supports Motorola, Scientific Atlanta/Cisco, & NDS
MULTIPLEXING CAPACITY	Flexible Creation of Unlimited SPTS and/or MPTS Multiplexes 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>	
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	IGMP v1,2 & 3
ENCAPSULATION	188 Bytes per TS Packet / 7 TS Packets per IP Packet
<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
REMOTE MANAGEMENT SUPPORT	F Connector Provided for Optional MSO Supplied Cable Modem Installation for Remote Management
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> Bulk QAM to IP with Pro:Idiom<sup>®</sup> Encryption:

### Functional Schematic



### Ordering Information

Part Number	Description
<b>QAM to PRO:IDIOM ENCRYPTED IP</b>	
UC24PQIP	24 Program Bulk Decrypt, Pro:Idiom Encrypted IP Out
UC18PQIP	18 Program Bulk Decrypt, Pro:Idiom Encrypted IP Out
UC12PQIP	12 Program Bulk Decrypt, Pro:Idiom Encrypted IP Out
UC6PQIP	6 Program Bulk Decrypt, Pro:Idiom Encrypted IP Out
<b>QAM to CLEAR IP</b>	
UC24QIP	24 Program Bulk Decrypt, Clear IP Out
UC18QIP	18 Program Bulk Decrypt, Clear IP Out
UC12QIP	12 Program Bulk Decrypt, Clear IP Out
UC6QIP	6 Program Bulk Decrypt, Clear IP Out
UCCM*	CableCARD Module with 6 QAM Tuners and Single OOB Tuner
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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ISO  
9001  
REGISTERED