



MDU Solutions®

UCrypt® Q2Q

Patent Pending



UCrypt® Bulk QAM to QAM with Pro:Idiom® Encryption: + §

Features:

- ▶ The UCrypt® QAM to QAM 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 via QAM 64 or 256
- ▶ Ideal for hospitality applications where Pro:Idiom encryption is required or for bulk MDU accounts where “clear-QAM” content is desired rather than having to deploy set-tops in every dwelling
- ▶ 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 as well as 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
- ▶ 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 QAM Specifications

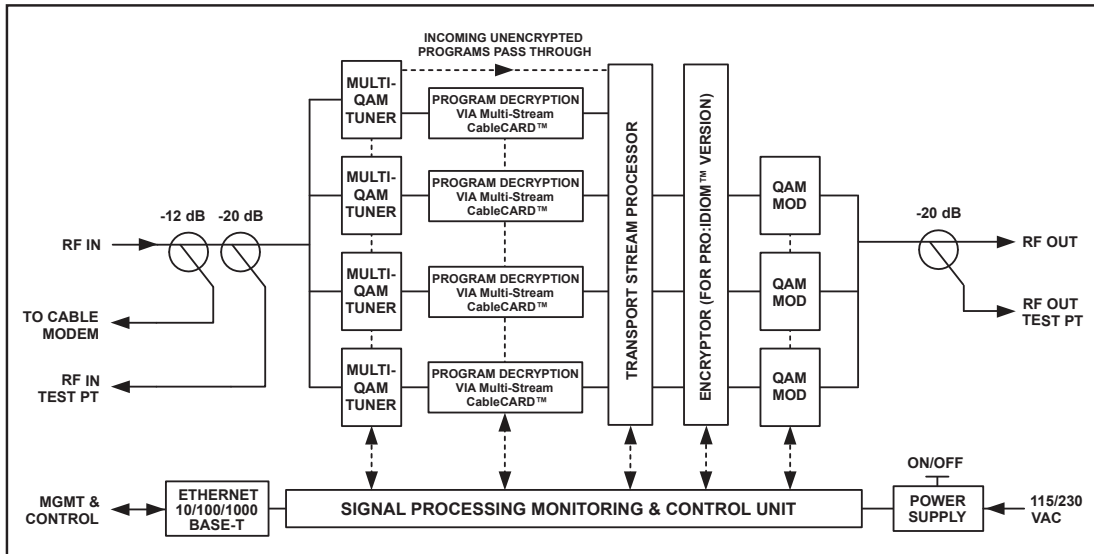
SPECIFICATIONS	
INPUT	
RF QAM	Up to 24 64 QAM & 256 QAM Tuners ⁽¹⁾
RF QPSK	Complies with ANSI/SCTE 55-1&2 2.048 Mbps & 1.544/3.088 Mbps, ANSI/SCTE 40
CONNECTOR	F Connector; Chassis Rear
FREQUENCY RANGE	54 MHz - 1 GHz in 1 kHz Steps, Supporting STD, IRC, HRC
ADJACENT QAM CHANNEL REQUIREMENT	None; All Tuners Individually Agile
RF INPUT	+5 to +10 dBmV per Digital Carrier
RF INPUT TEST	-20 dB Relative to Input; F Connector, Chassis Rear
TS PROCESSING	
PASSED CONTENT	Decrypt up to 24 Programs ⁽¹⁾ 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 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 64 QAM & 256 QAM Channels ⁽¹⁾ 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 OUTPUT 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
REMOTE MANAGEMENT SUPPORT	F Connector Provided for Optional MSO Supplied Cable Modem Installation for Remote Management
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	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
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.



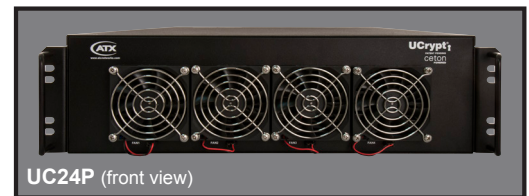
UCrypt® Bulk QAM to QAM with Pro:Idiom® Encryption:

Functional Schematic



Ordering Information

Part Number	Description
QAM to PRO:IDIOM QAM	
UC24P	24 Program Bulk Decrypt, Pro:Idiom Re-encrypt (24 Tuners & 24 Output QAMs)
UC24/16P	24 Program Bulk Decrypt, Pro:Idiom Re-encrypt (24 Tuners & 16 Output QAMs)
UC24/8P	24 Program Bulk Decrypt, Pro:Idiom Re-encrypt (24 Tuners & 8 Output QAMs)
UC18P	18 Program Bulk Decrypt, Pro:Idiom Re-encrypt (18 Tuners & 24 Output QAMs)
UC18/16P	18 Program Bulk Decrypt, Pro:Idiom Re-encrypt (18 Tuners & 16 Output QAMs)
UC18/8P	18 Program Bulk Decrypt, Pro:Idiom Re-encrypt (18 Tuners & 8 Output QAMs)
UC12P	12 Program Bulk Decrypt, Pro:Idiom Re-encrypt (12 Tuners & 16 Output QAMs)
UC12/8P	12 Program Bulk Decrypt, Pro:Idiom Re-encrypt (12 Tuners & 8 Output QAMs)
UC6P	6 Program Bulk Decrypt, Pro:Idiom Re-encrypt (6 Tuners & 8 Output QAMs)
QAM to CLEAR QAM	
UC24	24 Program Bulk Decrypt, Clear QAM Out (24 Tuners & 24 Output QAMs)
UC24/16	24 Program Bulk Decrypt, Clear QAM Out (24 Tuners & 16 Output QAMs)
UC24/8	24 Program Bulk Decrypt, Clear QAM Out (24 Tuners & 8 Output QAMs)
UC18	18 Program Bulk Decrypt, Clear QAM Out (18 Tuners & 24 Output QAMs)
UC18/16	18 Program Bulk Decrypt, Clear QAM Out (18 Tuners & 16 Output QAMs)
UC18/8	18 Program Bulk Decrypt, Clear QAM Out (18 Tuners & 8 Output QAMs)
UC12	12 Program Bulk Decrypt, Clear QAM Out (12 Tuners & 16 Output QAMs)
UC12/8	12 Program Bulk Decrypt, Clear QAM Out (12 Tuners & 8 Output QAMs)
UC6	6 Program Bulk Decrypt, Clear QAM Out (6 Tuners & 8 Output QAMs)
UCCM*	CableCARD Module with 6 QAM Tuners and Single OOB Tuner
UCQAM*	8-channel QAM Modulator
UCFAN	External Replacement Fan for UCrypt
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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Specifications subject to change without notice.

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