



MDU Solutions®

UCrypt® Lite Q2Q

Patent Pending



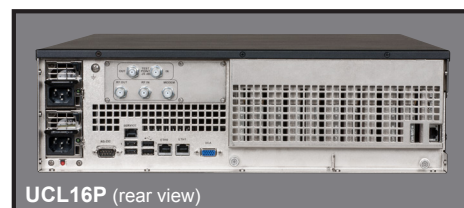
UCrypt® Lite QAM to QAM: *

Features:

- ▶ The UCrypt® Lite QAM to QAM product offering allows MSOs to decrypt selected programs from their digital tier, re-encrypt them with Pro:Idiom® encryption or leave them in-the-clear & retransmit them via QAM
- ▶ The UCrypt Lite is designed & priced specifically with the ROI MSOs require for delivering set-top boxless HD service to hotels with less than 120 rooms
- ▶ Support for H.264 streams
- ▶ Includes configurable line card style EPG channel
- ▶ Allows for PSIP VCT insertion for customizing virtual channel lineup on property TVs
- ▶ Features capacity for delivery of 16+ HD programs in 8 output QAMs
- ▶ Allows for acquisition of 16+ programs from any of up to 12 individual QAMs on the cable plant and facilitates decryption of up to 12 of the acquired programs
- ▶ The UCrypt Lite features design enhancements to facilitate field upgrade of tuner & QAM modules for easy & cost-effective future channel capacity expansion
- ▶ Comes standard with a fully redundant power supply
- ▶ The HTTP-based management interface allows operators to monitor, manage & configure the product remotely



UCL16P (front view)



UCL16P (rear view)

UCrypt[®] Lite QAM to QAM:

UCrypt[®] Lite QAM to QAM Specifications

SPECIFICATIONS	
INPUT	
RF QAM	12 256/64 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 +15 dBmV per Digital Carrier
RF INPUT TEST	-20 dB Relative to Input; F Connector, Chassis Rear
TS PROCESSING	
PASSED CONTENT	Decrypt up to 12 Programs ⁽¹⁾ Using up to 2 Multistream CableCARD™ Devices ⁽²⁾ 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 8 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 8 SPTS and/or MPTS Multiplexes ⁽¹⁾ (38.8 Mbps max each)
SUPPORTED VIDEO FORMATS	MPEG-2 MP@HL, MPEG-4 pt10 AVC/H.264 HP@L4
SUPPORTED VIDEO RESOLUTIONS	Up to 720p & 1080i
SUPPORTED AUDIO FORMATS	Dolby® Digital (AC-3), MPEG-1 L1/2
CLOSED CAPTION (CC)	Pass through original EIA 608/708 Closed Captioning
OUTPUT	
RF	Up to 8 256/64 QAM Channels ⁽¹⁾ in Groups of 4 Adjacent QAMs
FREQUENCY RANGE	54 MHz - 1GHz 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	
FORM FACTOR	3RU, 19" Rack Mount
DIMENSIONS	5.25"H x 19.0"W x 22.8"D (13.34H x 48.26W x 57.91D cm)
WEIGHT (Max)	44.1 lbs (20.0 kg)
POWERING	2.5 Amps @ 115 VAC, 1.2 Amps @ 230 VAC 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 +40°C ⁽³⁾ (+32°F to +104°F)
HUMIDITY	0-95% Non-condensing
NOTES:	
(1) Expandable to 24	
(2) Expandable to 4	
(3) For details on exceeding +30°C, please refer to the UCrypt Environment & Temperature Considerations Info Sheet (#ANW1066).	
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UCrypt[®] Lite QAM to QAM:

Ordering Information

Part Number	Description
QAM to QAM	
UCL16	16 Program Q2Q Clear Output
UCL16P	16 Program Q2Q with Pro:Idiom Output
UPGRADEABLE MODULES	
UCCM	CableCARD Module with 6 Tuners
UCQAM	8-channel QAM Modulator
UCFAN	External Replacement Fan for UCrypt
UCRPS	UCrypt Redundant Power Supply Module

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Specifications subject to change without notice.

