



MDU Solutions®

UCrypt® Q2Qv2 SD

Patent Pending



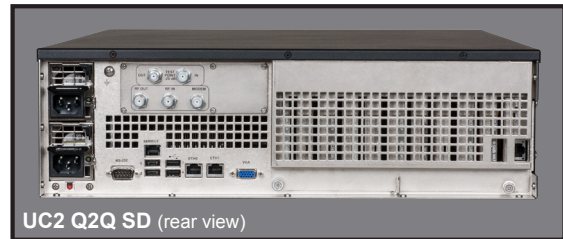
UCrypt® QAM to QAM v2 SD with Pro:Idiom® Encryption: *

Features:

- ▶ Ideal QAM to Analog (Q2A) solution alternative for properties already equipped with digital TVs. Avoid spending capital on a Q2A solution with a limited life span during analog reclamation projects
- ▶ Aggressively priced with low up front cost
- ▶ Have everything required already in place for when the customer wants to upgrade to HD
- ▶ Easily field-upgradeable to process HD programs
- ▶ 30-60 SD program decrypts with 8 output QAMs (upgradeable to HD decrypts & 32 QAMs)
- ▶ The UCrypt® QAM to QAM SD product offering allows MSOs to decrypt select SD programs from their digital tier, re-encrypt them with Pro:Idiom® or leave them in-the-clear & retransmit them via QAM 64 or 256
- ▶ Ideal for providing a full complement of reclaimed analog channels in digital SD to any hospitality or bulk MDU accounts affected by analog tier migration initiatives
- ▶ 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 a true field-upgradeable design to easily add channel capacity on an as-required basis as well as easily replaceable redundant power supply modules
- ▶ HTTPS-based management interface allows operators to monitor, manage & configure the product remotely

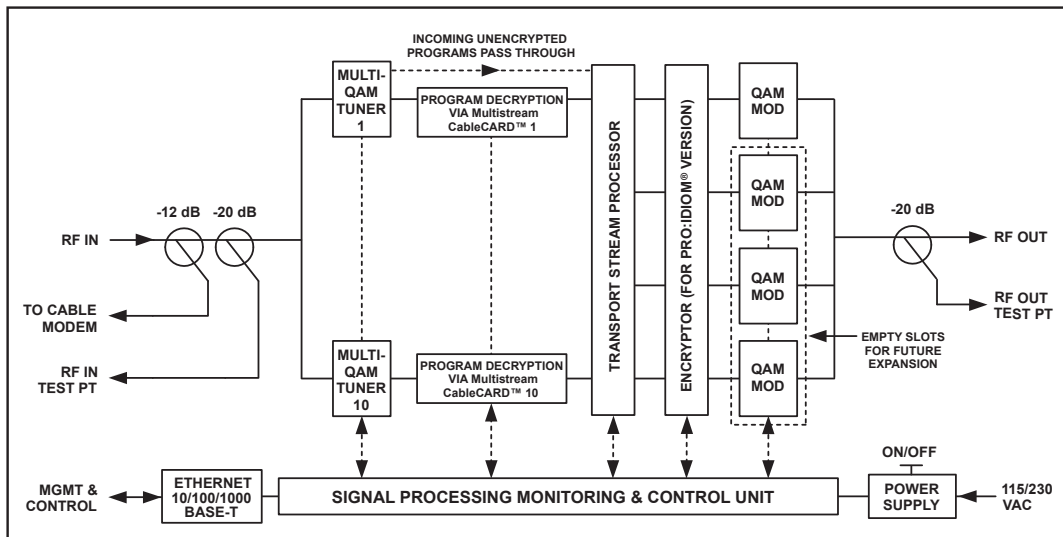


UC2 Q2Q SD (front view)



UC2 Q2Q SD (rear view)

Functional Schematic



UCrypt[®] QAM to QAM v2 SD with Pro:Idiom[®] Encryption:

UCrypt[®] QAM to QAM v2 SD Specifications

SPECIFICATIONS	
INPUT	
RF QAM	30-60, 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 60 Programs ⁽¹⁾ Using up to 10 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 8 SPTS and/or MPTS ⁽¹⁾ (38.8 Mbps max each) with PAT/PMT Generation per TS. Upgradeable to 32
ENCRYPTION	Pro:Idiom Encrypted Multiplex or Unencrypted Multiplex
ENCRYPTION CAPACITY	Up to 8 SPTS and/or MPTS Multiplexes ⁽¹⁾ (38.8 Mbps max each). Upgradeable to 32
SUPPORTED VIDEO FORMATS	MPEG-2 MP@HL, MPEG-4 pt10 AVC/H.264 HP@L4
SUPPORTED VIDEO RESOLUTIONS	480i, Upgradeable to 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	8, 64 QAM & 256 QAM Channels ⁽¹⁾ in Groups of 4 Adjacent QAMs, Upgradeable to 32 QAM
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	
FORM FACTOR	3RU, 19" Rack Mount
DIMENSIONS	5.25"H x 19.0"W x 23.96"D (13.34H x 48.26W x 60.86D cm)
WEIGHT (Max)	47.7 lbs (21.7 kg)
INPUT POWER	4.0 Amps @ 115 VAC, 2.0 Amps @ 230 VAC
POWER REDUNDANCY	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 ⁽²⁾ (+32°F to +104°F)
HUMIDITY	0-95% Non-condensing
NOTES:	
(1) Depends upon ordered hardware options.	
(2) For details on exceeding +30°C, please refer to the UCrypt Environment & Temperature Considerations Info Sheet (#ANW1066).	
Dolby is a registered trademark of Dolby Laboratories. Manufactured under license from Dolby Laboratories.	

UCrypt[®] QAM to QAM v2 SD with Pro:Idiom[®] Encryption:

Ordering Information

Part Number	Description
UCT30/8SD	UC2 Q2Q 30 Tuner/Decrypt 8 QAM Clear Out SD Only
UCT36/8SD	UC2 Q2Q 36 Tuner/Decrypt 8 QAM Clear Out SD Only
UCT42/8SD	UC2 Q2Q 42 Tuner/Decrypt 8 QAM Clear Out SD Only
UCT48/8SD	UC2 Q2Q 48 Tuner/Decrypt 8 QAM Clear Out SD Only
UCT54/8SD	UC2 Q2Q 54 Tuner/Decrypt 8 QAM Clear Out SD Only
UCT60/8SD	UC2 Q2Q 60 Tuner/Decrypt 8 QAM Clear Out SD Only
UCHDUPGD	UCrypt SD Version to HD Version Software Upgrade
UCTTBA-SD	UCv2 Cable Card Module with 6 Tuners for SD Version Upgrade
UCQAM-SD	UC 8cg QAM Module for SD Version Upgrade
UCNIC-SP	UCrypt Network Interface & Encryption Card

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Specifications subject to change without notice.

