UCrypt® IP2Q
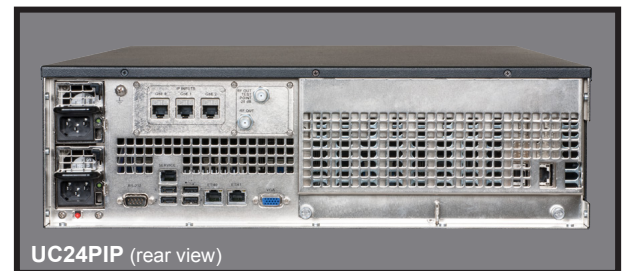
UCrypt® IP to QAM with Pro:Idiom® Encryption

Features:

▸ UCrypt® IP to QAM product offering allows MSOs to ingest content from their IP video network, remultiplex & 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

▸ 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

▸ 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

▸ Features design enhancements to facilitate field upgrade of tuner & QAM modules for easy & cost-effective future channel capacity expansion

Ordering Information

Part Number	Description
IP to QAM - CLEAR Output	
UC8IP	IP Input to 8 QAM Output; Clear Out
UC16IP	IP Input to 16 QAM Output; Clear Out
UC24IP	IP Input to 24 QAM Output; Clear Out
UC32IP	IP Input to 32 QAM Output; Clear Out
UCTIPQ8D	IP FKD Decrypt to 8 QAM; Clear Out
UCTIPQ16D	IP FKD Decrypt to 16 QAM; Clear Out
UCTIPQ24D	IP FKD Decrypt to 24 QAM; Clear Out
UCTIPQ32D	IP FKD Decrypt to 32 QAM; Clear Out
IP to QAM - PRO:IDIOM Output	
UC8PIP	IP to 8 QAM; Pro:Idiom Encryption
UC16PIP	IP to 16 QAM; Pro:Idiom Encryption
UC24PIP	IP to 24 QAM; Pro:Idiom Encryption
UC32PIP	IP to 32 QAM; Pro:Idiom Encryption
Power Supply Modules	
UCTPSMOD-AC3	UCrypt AC Power Supply Module 3
UCTPSMOD-DC1	UCrypt DC Power Supply Module 1
Replacement Parts	
UCQAM*	8-channel QAM Modulator
UCFAN	External Replacement Fan for UCrypt

NOTE:
 * F = unit returned to ATX for upgrade; L = unit upgraded on site (requires purchase of UCUPGV - on site visit charge)

UC24PIP (front view)

UC24PIP (rear view)

UCrypt® IP to QAM with Pro:Idiom® Encryption

UCrypt® IP to QAM Specifications

SPECIFICATIONS	
INPUT	
ETHERNET	IEEE 802.3-2002,1000BASE-T (GbE)
CONNECTORS	3x 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
TS PROCESSING	
MULTIPLEXING CAPACITY	Flexible Creation of up to 32 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 32 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 32 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 INPUT 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
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)	45.7 lbs (20.8 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	0ºC to +40ºC[2] (+32ºF to +104ºF)
HUMIDITY	0-95% Non-condensing

NOTES:
(1) Depends upon ordered hardware options.
(2) For details on exceeding +30ºC, please refer to the UCrypt Environment & Temperature Considerations Info Sheet (#ANW1066).
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