

UCrypt® Q2IP



Patent Pending

QAM to IP
(front view)

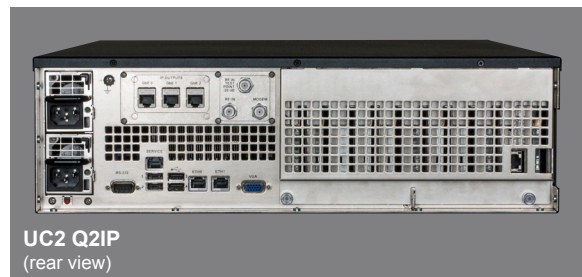
UCrypt® QAM to IP

Features

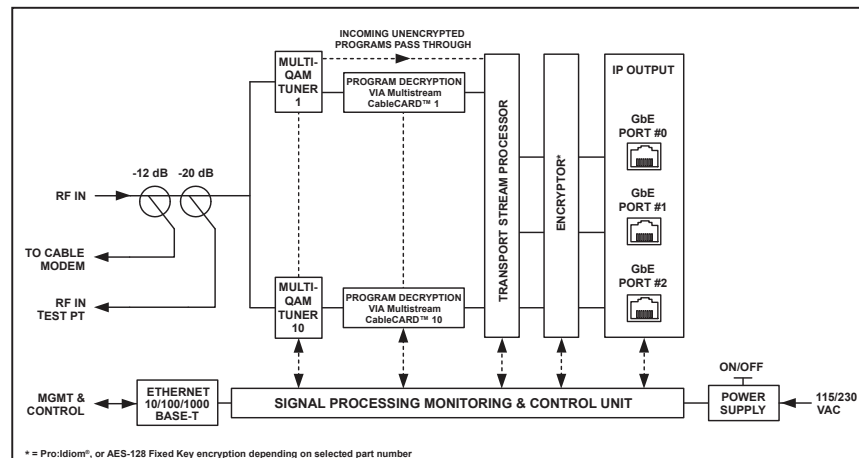
- The UCrypt® QAM to IP product offering allows MSOs to decrypt select programs from their digital tier, re-encrypt them with Pro:Idiom®, AES-128 Fixed Key or leave them in-the-clear & retransmit them over GigE-based IP protocol
- Perfect for providing content to commercial or hospitality environments with deployed IPTV systems or for use within other system architectures requiring Pro:Idiom, AES-128 Fixed Key encrypted content or in-the-clear content in IP format
- Supports both MPEG-2 & H.264 output streams
- Configurable multicast IP & port assignments for output streams
- Features intelligent “plant following” functionality to ensure output programs are maintained during cable plant program moves
- Includes an easy-to-use management interface which allows users to select programs to be decrypted and/or passed through to the output of the device & assign them to desired IP multicast addresses
- 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 Q2IP
(front view)



UC2 Q2IP
(rear view)



Functional Schematic



Specifications

UCrypt® QAM to IP

INPUT	
RF QAM	Up to 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 SPTS and/or MPTS Multiplexes with PAT/PMT Generation per TS
ENCRYPTION ⁽¹⁾	Pro:Idiom, AES-128 Fixed Key or Unencrypted Output Options
ENCRYPTION CAPACITY ⁽²⁾⁽³⁾	Up to 60 Programs. Pro:Idiom & AES-128 Fixed Key (MPTS or SPTS)
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	
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
ENCAPSULATION	188 Bytes per TS Packet / 7 TS Packets per IP Packet
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)	45.9 lbs (20.8 kg)
INPUT POWER	AC: 4.0 Amps @ 115 VAC, 2.0 Amps @ 230 VAC DC: 7.5 Amps @ -48 VDC
POWER REDUNDANCY	Fully Redundant 650W Power Supply Modules, Hot-swappable
ELECTRICAL APPROVAL	Approved to UL 60950-1, 2nd Edition (File E325862)



Specifications (cont'd)

UCrypt® QAM to IP

PHYSICAL & ENVIRONMENTAL	
POWER CONTROL	Software Power Control
OPERATING TEMPERATURE	0°C to +40°C ⁽⁴⁾ (+32°F to +104°F)
HUMIDITY	0-95% Non-condensing

NOTES:

- (1) Depends upon ordered hardware options.
- (2) Specific hardware is required.
- (3) User is able to select output encryption type, see ordering information.
- (4) 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.

Ordering Information

Part Number	Description
UC 2.0 Q2IP with Unencrypted Output	
UCT12QIP	UC2 Q2IP 12 Tuner/Decrypt IP Out
UCT24QIP	UC2 Q2IP 24 Tuner/Decrypt IP Out
UCT48QIP	UC2 Q2IP 48 Tuner/Decrypt IP Out
UCT60QIP	UC2 Q2IP 60 Tuner/Decrypt IP Out
UC 2.0 Q2IP with PRO:IDIOM Output	
UCT12PQIP	UC2 Q2IP 12 Tuner/Decrypt Pro:Idiom Encrypted IP Out
UCT24PQIP	UC2 Q2IP 24 Tuner/Decrypt Pro:Idiom Encrypted IP Out
UCT48PQIP	UC2 Q2IP 48 Tuner/Decrypt Pro:Idiom Encrypted IP Out
UCT60PQIP	UC2 Q2IP 60 Tuner/Decrypt Pro:Idiom Encrypted IP Out
UC 2.0 Q2IP with AES-128 Fixed Key Output	
UCT12KQIP	UC2 Q2IP 12 Tuner/Decrypt Fixed Key IP Out
UCT24KQIP	UC2 Q2IP 24 Tuner/Decrypt Fixed Key IP Out
UCT48KQIP	UC2 Q2IP 48 Tuner/Decrypt Fixed Key IP Out
UCT60KQIP	UC2 Q2IP 60 Tuner/Decrypt Fixed Key IP Out
UC 2.0 Q2IP with PRO:IDIOM or AES-128 Fixed Key Output	
UCT12XQIP	UC2 Q2IP 12 Tuner/Decrypt Pro:Idiom or AES-128 Fixed Key IP Out
UCT24XQIP	UC2 Q2IP 24 Tuner/Decrypt Pro:Idiom or AES-128 Fixed Key IP Out
UCT48XQIP	UC2 Q2IP 48 Tuner/Decrypt Pro:Idiom or AES-128 Fixed Key IP Out
UCT60XQIP	UC2 Q2IP 60 Tuner/Decrypt Pro:Idiom or AES-128 Fixed Key IP Out
UC 2.0 Q2IP with MUX Pass Through	
UCT60FMQIP	UC2 Q2IP 60 Tuner MUX Pass Through IP Out
Power Supply Modules	
UCTPSMOD-AC3	UCrypt AC Power Supply Module 3
UCTPSMOD-DC1	UCrypt DC Power Supply Module 1

* Any use of the UCrypt product, directly or indirectly, for the decryption and unauthorized reproduction of content that constitutes or may constitute copyright infringement or otherwise infringes on the proprietary rights of any third party is expressly prohibited. No user of UCrypt shall use UCrypt for any purpose or in any manner which, directly or indirectly, violates the law, violates the proprietary rights of any other party, or aids in any unlawful act or undertaking including, without limitation, laws governing data privacy, international data transmission, and export of technology or data. Any multiple systems operator or other similar party ("MSO") will use the UCrypt product in strict compliance with all applicable laws and in compliance with any agreement in effect between the MSO and a content provider. In no event shall ATX Networks Corp. or any of its affiliates be liable to an MSO, any end user of the UCrypt product, or any other third party, for any claims arising out of or related to any use or misuse of the UCrypt product in contravention of this disclaimer. It is the express obligation of an MSO to convey this disclaimer to any other end user of the UCrypt product.

UCrypt devices support most desktop web browsers for viewing and editing. Our support is focused on the most recent versions of the browsers. Chrome™ and Firefox® supported on PC, Mac®, and Linux®; Microsoft® Edge and Internet Explorer® 11 (Windows® 8+) are only supported for PC. We recommend using the latest browser version available to your operating system..

UCrypt® is a registered trademark of ATX in the United States and/or other countries. Products or features contained herein may be covered by one or more U.S. or foreign patents. Pro:Idiom®, Dolby®, CableCARD™, Chrome™, Firefox®, PC, Mac®, Linux®, Microsoft® Edge, Internet Explorer®, Windows® and other non-ATX product and company names mentioned in this data sheet are the property of their respective companies.

Products or features contained herein may be covered by one or more U.S. or foreign patents. Other non-ATX product and company names mentioned in this data sheet are the property of their respective companies.

© 2022 by ATX Networks Corp. and its affiliates (collectively "ATX Networks Corp."). All rights reserved. This material may not be published, broadcast, rewritten, or redistributed. Information in this document is subject to change without notice.

Rev. 09/22 (ANW0936) Rev. A



ATX Confidential and Proprietary

