

UCrypt® Q2IP

QAM to IP - MUX Pass Through *



Patent Pending

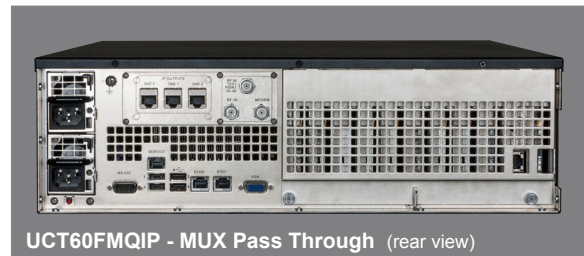
QAM to IP
(front view)

Features

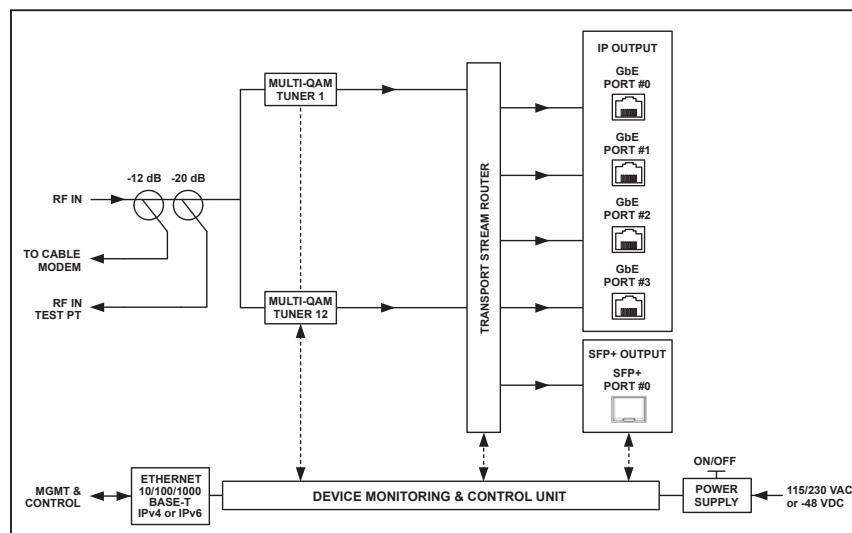
- The UCrypt® QAM to IP - MUX Pass Through product offering simplifies the scope and accelerates the timeframe for distributed access architecture initiatives
- Using the UCrypt QAM to IP - MUX Pass Through unit allows MSOs to maintain existing broadcast tier encryption functionality on in-service edge QAMs alleviating the upfront need to migrate this encryption functionality to the CCAP™/Remote PHY core
- MSOs can demodulate the QAM carriers containing complete multiplexes of encrypted streams from a cable plant and convert the multiplexes (including all PIDs) for retransmission in UDP IP format over GigE-based IP protocol
- Features simple configuration for selecting frequencies to be passed through to the output of the device and assigning them to desired IP multicast addresses
- Available API-based configuration capability allows for automation of configuration changes for events such as broadcast tier multiplex changes
- HTTPS-based management interface allows operators to monitor, manage and configure the product remotely



UCT60FMQIP - MUX Pass Through (front view)



UCT60FMQIP - MUX Pass Through (rear view)



Functional Schematic

Specifications

QAM to IP - MUX Pass Through

INPUT	
RF QAM	Up to 78 QAM 64/256 Tuners
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
OUTPUT	
ETHERNET	IEEE 802.3-2002, 1000BASE-T (GbE) and 10 Gigabit Ethernet over SFP+ ⁽¹⁾
CONNECTORS	4x RJ45 and 1 SFP+; Chassis Rear ⁽¹⁾
PHYSICAL PORT ADDRESS	Static IP Address or DHCP Client Mode per Port
TRANSPORT LAYER PROTOCOL	UDP
ADDRESSING	IPv4 Multicast and Unicast, Supporting all Valid IP Port Numbers
DEVICE MANAGEMENT	
MANAGEMENT INTERFACE	Local or Remote Management via Integrated Secure Web Server
MANAGEMENT INTERFACE PORT	10/100/1000BASE-T, Static IP (IPv4 or IPv6) or, DHCP (IPv4 or IPv6), RJ45, Chassis Rear
SECONDARY CRAFT PORT	10/100/1000BASE-T, Static IP, RJ45, Chassis Rear
MANAGEMENT SECURITY	3 Password Protected Tiered User Accounts, TACACS+
MASS DEPLOYMENT & BACKUP	Importable/Exportable Device Configuration Files
REMOTE MONITORING	Integrated SNMP Agent and MIB & SysLog Forwarding
REMOTE MANAGEMENT SUPPORT	F Connector Provided for Optional MSO Supplied Cable Modem Installation for Remote Management
ALARMS	Email Notification, SNMP Traps
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)
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) 10 Gigabit Ethernet and SFP+ connector support only available on models with 10G part number designation.

(2) For details on exceeding +30°C, please refer to the UCrypt Environment & Temperature Considerations Info Sheet (#ANW1066).

Ordering Information

Part Number	Description
UC Q2IP with MUX Pass Through	
UCT60FMQIP	UC Q2IP 60 Tuner MUX Pass Through to IP Out
UCT60FMQIPDC	UC Q2IP 60 Tuner MUX Pass Through to IP Out (DC)
UCT60FMQIP10G	UC Q2IP 60 Tuner MUX Pass Through to IP 10G Out
UCT60FMQIP10GDC	UC Q2IP 60 Tuner MUX Pass Through to IP 10G Out (DC)
UCT78FMQIP10G	UC Q2IP 78 Tuner MUX Pass Through to IP 10G Out
UCT78FMQIP10GDC	UC Q2IP 78 Tuner MUX Pass Through to IP 10G Out (DC)
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.

MDU Solutions® and UCrypt® are registered trademarks 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. CCAP™, 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.

© 2019 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. 11/19 (ANW1236)



ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX | support@atx.com