

MDU Solutions® UCrypt®- QAM to QAM, QAM to IP, IP to QAM & IP to IP FIRMWARE UPDATE NOTICE

Maintenance FW Version:

- ▶ 3.2.1.2017.112.839

Tuner Board Version:

- ▶ 17.1.9.105, FPGA: 7375 or 7421

QAM Module F/W:

- ▶ v2.22 or v.1.14

Issued:

- ▶ February 17, 2017



Note: User must accept EULA agreement after initial login

New Features:

- ▶ New SKU: UCT60SQIP UC2 Q2IP 60 tuner/decrypt w/ Simulcrypt IP out
- ▶ New SKU: UCT60XQIP UC2 Q2IP 60 tuner/decrypt w/ Simulcrypt & Pro:Idiom IP out
- ▶ Allow UCrypt Monitoring Server to start syslog forwarding
- ▶ Update video I/O board driver for newer kernels
- ▶ Add more stats to system health information
- ▶ Display video codec type
- ▶ Enable SDV feature on all units
- ▶ Collect additional diagnostic information from tuners
- ▶ Add EULA that must be accepted
- ▶ Increase the number of Pro:Idiom® Multicast streams supported per output interface
- ▶ Display IP address of management interface at console
- ▶ Display MAC addresses of all external interfaces in network config
- ▶ Add description to EAS "Max alert length" in UCrypt UI
- ▶ Enable Pro:Idiom Passthrough support on IP input units
- ▶ Print EAS sequence_number in logs
- ▶ Add OOB only EAS support
- ▶ Support for Tuning Adapters that handle up to 12 streams
- ▶ Handle non-standard USB messages from Tuning Adapters (USB Halt)
- ▶ Add link to CableCARD™ doing decryption on Channel Details page
- ▶ Add ability to backup/restore full unit configuration
- ▶ Added support for fan monitoring on V3.1 hardware
- ▶ Rate-limited APDUs to help with Tuning Adapters that cannot process them quickly
- ▶ Added support for CPU reporting on V3.1 hardware
- ▶ Added bulk output assignment button on Output MPTS Page
- ▶ Make null stuffing disabled by default on IP output SKUs
- ▶ Support for Combined Pro:Idiom/Simulcrypt output SKU
- ▶ Allow master user to enable/disable Prol in password protected UI setting on Pro:Idiom models
- ▶ Make input/output capture directory persist through firmware upgrades
- ▶ Make Ethernet port used for EAS message selectable

- ▶ Add v3.1 hardware type
- ▶ Collect additional diagnostic information for Simulcrypt SKUs
- ▶ Include support for Simulcrypt SKU
- ▶ Log additional EAS alert information
- ▶ Improve tuner board diagnostic logging
- ▶ Automatic backup of configuration before upgrade
- ▶ Daily backup of configuration files
- ▶ Make UCrypt configuration backups have date, time and unit serial number in filename

Changelog & Fixes (since last GA 3.1.6.2015.716.2017):

- ▶ Correct intermittent packet loss issue on some tuner boards
- ▶ Correct intermittent display of incorrect signal level
- ▶ Fix for some units running out of memory during guide generation
- ▶ Syslog entries may be missing if pointed to a non-existent server
- ▶ Prevent apply hanging after configuring unicast output
- ▶ Fix for breakup of video output
- ▶ Fix crash on receiving corrupted SVCT
- ▶ Resolve compatibility issue with CableCARDS that advertise support for more than 6 streams
- ▶ Fix for CC errors on output
- ▶ Fix for handling of output underflow situation
- ▶ Improve handling of input buffer underflow events
- ▶ Remote "Tuner Board Configured But Not Detected" alert from units without tuners
- ▶ Upgrade OpenSSL due to CVE-2016-2108
- ▶ Fix for 4th QAM modulator firmware not being upgraded
- ▶ Fix for input captures not completing
- ▶ Remove mention of Tuning Adapters on ClearQAM input models
- ▶ Fix for intermittent corruption on outputs greater than 7 (IP out models)
- ▶ Remove output Add/Remove buttons from units that do not support add/remove
- ▶ Fix source IP of video interfaces cannot be configured
- ▶ Resolve unchecked audio PIDs not being removed when the Source ID is 0
- ▶ Improve debug logging on corrupted input MPEG (QAM input)
- ▶ Handle non-standard tables on input gracefully (QAM input)
- ▶ Correct MAC addresses on IP output units with hardware support for >24 Pro:Idiom TS
- ▶ Resolve logging issues on units with certain configurations
- ▶ Hide display of outputs which are not present (IP out)
- ▶ Increase frequency of CVCT to account for higher-priority packets
- ▶ Fix for input PAT changes not being followed
- ▶ Resolve issue of files not being included in the diagnostics dump
- ▶ Improve handling of USB re-enumeration of Tuning Adapters
- ▶ SNMP: Add Product Type to MIB
- ▶ SNMP: Add hardware version to the MIB
- ▶ UI Responsiveness improvements when Tuning Adapters are attached
- ▶ Improve handling of Tuning Adapters going offline
- ▶ Fix for some tuners intermittently not getting PCR lock
- ▶ Fix for erroneous Lost Resolution messages
- ▶ Remote unsupported output setting from UI
- ▶ Improved handling of non-content streams in the PMT
- ▶ Fix for QAM modulators not being detected (QAM output)

- ▶ Fix for video traffic being sent to unicast MAC address
- ▶ Resolved error when attempting to access UCrypt UI
- ▶ Improved collection of CableCARD MMI pages in diagnostic files
- ▶ Properly simulate user activity on SDV channels where the TA supports >6 streams
- ▶ Upgrade OpenSSL due to CVE-2016-8610
- ▶ Improve handling of PAT changes
- ▶ Prevent log from being flooded with messages due to Tuning Adapter reset request
- ▶ Improved handling of programs being add/removed from the PAT in SDV Environments
- ▶ Resolved situation that could cause an “You have unapplied changes” loop
- ▶ Fix for 3rd Audio PID not being displayed in UI
- ▶ Fix for EAS mode may not be exited when EAS message time is short
- ▶ Fix for program guide not being present on output, UI showing green dot
- ▶ Fix for high CPU usage
- ▶ Point EAS port to correct network interface on multi-output card units
- ▶ Fix for UCrypt failure when playing a Transport Stream file
- ▶ Fix for incorrect management interface MAC being returned via SNMP
- ▶ Add text to clarify how to proceed on UCrypt license screen
- ▶ Fix for channels being added to non-existent outputs
- ▶ Resolve continuity errors on outputs
- ▶ Resolve UCrypt process restarting on SDV tune_status change
- ▶ Resolve “Invalid Settings” message when changing QAM output frequency
- ▶ Resolve UCrypt process restarting on corrupted input PSIP data
- ▶ Resolve tuners that are not tuned are reporting carrier lock
- ▶ Correct extraneous debug prints in tuner logs
- ▶ Correct all tuner diagnostic page does not populate Signal Level or SNR on first load after a reboot
- ▶ Resolve all Tuner Diagnostic showing carrier lock and SNR for unlocked tuners
- ▶ Correct tuner board firmware may not get upgraded when UCrypt firmware is upgraded
- ▶ Support for multiple programs on an input being sent as passthrough (bypass mux)
- ▶ Resolve situation where configuration may be corrupted on firmware upgrade

Service & Support

Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX Customer Service to obtain a valid RMA number for any ATX products that require service and are in or out-of-warranty before returning a failed module to the factory.

DIGITAL VIDEO TECHNICAL SUPPORT

Tel: (905) 428-6068

Toll Free: (800) 565-7488 (USA & Canada only)

▶ Press *3 for **Technical Support**

▶ Then press 1 for **Digital Video Products (DVIS,**

DigiVu, UCrypt, VersActivePro, DigiStream)

Email: digitalvideosupport@atxnetworks.com

CUSTOMER SERVICE

ATX Networks

1-501 Clements Road West

Ajax, ON L1S 7H4 Canada

Tel: (905) 428-6068

Toll Free: (800) 565-7488 (USA & Canada only)

▶ Press *1 for **Customer Service**

Fax: (905) 427-1964

Toll Free Fax: (866) 427-1964 (USA & Canada only)

Web: www.atxnetworks.com

Email: support@atxnetworks.com



Although every effort has been taken to ensure the accuracy of this document it may be necessary, without notice, to make amendments or correct omissions. Specifications subject to change without notice.

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.

MDU Solutions®, UCrypt®, DigiVu® and VersActive®Pro 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. Pro:Idiom®, CableCARD™, and other non-ATX product and company names in this notice are the property of their respective companies.



1-501 Clements Road West, Ajax, ON L1S 7H4 Canada
Tel +1 (905) 428-6068 Toll Free +1 (800) 565-7488
Fax +1 (905) 427-1964 Toll Free Fax +1 (866) 427-1964
www.atxnetworks.com support@atxnetworks.com