

# 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:** This firmware does **NOT** apply to UCrypt IP to Analog (IP2A) or QAM to Analog (Q2A) SKUs. 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:I 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 Pro:I 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 3<sup>rd</sup> 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 Products

(DVIS, DigiVu, UCrypt, VersActivePro)

#### TECHNICAL SUPPORT

Tel: (905) 428-6068 – press \*3 then press 1  
 Toll Free: (800) 565-7488 – press \*3 then press 1  
 (USA & Canada only)  
 Email: [digitalvideosupport@atxnetworks.com](mailto:digitalvideosupport@atxnetworks.com)

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