

UCrypt®- QAM TO ANALOG, QAM TO QAM, QAM TO IP, IP TO QAM, IP TO IP FIRMWARE UPDATE NOTICE

Software Version:

- ▶ 3.5

Release Date:

- ▶ August 5, 2020

SKU / Blades:

- ▶ Q2A, Q2Q, Q2IP, IP2Q, IP2IP

Filename:

- ▶ ucrypt_update_v3.5.zip

Notices:

- ▶ Firmware upgrades for Hardware Revision less than or equal to v2.0 are no longer supported and are not eligible for upgrade for upgrade to 3.5. See Hardware / Firmware Support Table below.

Prerequisite:

Upgrade Target Firmware	Min pre-existing Firmware required
3.5	3.4 to 3.4.4
3.4 to 3.4.4	3.3.51
3.3.51	3.3.19
3.3.19	3.2.1
3.2.1	Contact Support

Please see Recommended Upgrade Procedure section below.

New & Improved:

- ▶ Disabled checking Certificate Authority validity period during CableCARD™ pairing process. (CableCARD and Host CA Certificates will expire in March 2023)
- ▶ Introduced an enhanced audio recovery mechanism to improve robustness in audio PID handling following upstream PID or PSI changes on Q2A SKU.
- ▶ Introduced a periodic log archiving and purge mechanism specific to Q2A SKU
- ▶ SNMP “sysName” can now be customized by changing the System tab >> DHCP Hostname field.
- ▶ Improved rsyslog logging to include system time in Tuner logs
- ▶ Added support for 2 new Product SKUs:
 - UCIP2D – IP to IP, 1.2 Gbps w/ AES Fixed-Key Decrypt, Clear Output
 - UCPIP2D – IP to IP, 1.2 Gbps w/ AES Fixed-Key Decrypt, Pro:Idiom Output
- ▶ Added RTP detection support on IP input SKUs
- ▶ Include archived message logs in diagnostic dump
- ▶ Remove Pro:Idiom Encryption source IDs from exported configuration
- ▶ Improved log rotation to prevent rare instances of hard drive running out of space.

Fixes:

- ▶ Fixed: Q2A output channel plans present out of range frequencies/channels
- ▶ Fixed: The analog output on Q2A may fail to upgrade if DNS entry is invalid

- ▶ Fixed: QAM Input SKUs may drop PMT, Video, and/or Audio PIDs in their outputs following certain upstream PSI event(s).
- ▶ Fixed: Output PMT version fails to update/increment following certain upstream PSI event(s).
- ▶ Fixed: Upstream PSI changes may cause Pro:Idiom-encrypted content to go offline when “Passthrough ProI encrypted content” setting is enabled
- ▶ Fixed: Upstream channel map updates may cause output channels to drop under specific conditions
- ▶ Fixed: Power cycling a TA (Tuning Adaptor) connected to a unit via USB or selecting the “Reset CableCARD” or “Reset Board” buttons on Diagnostics page may sometimes cause the entire unit to reboot/re-initialize
- ▶ Fixed: UI incorrectly indicates an error message: “No ProI encryption available on this output” even when unit has Pro:I Encryption enabled and outputting encrypted content
- ▶ Fixed: User can still input a static IP address on IP input interface fields even when DHCP is enabled
- ▶ Fixed: MPEG-4/H.264 streams with missing HRD parameters result in low video bitrate
- ▶ Fixed: PSIP channel numbers missing when using a Simple Virtual Channel method
- ▶ Fixed: MPEG-4/H.264 signal parsing issue due to invalid data present in incoming stream causing the unit to reboot/re-initialize
- ▶ Fixed: New channel map keeps dropping due to upstream changes setting channel frequency value to 0
- ▶ Security Vulnerabilities updated:
 - Upgraded Bash to 4.1.2-48.el6
 - Upgraded OpenSSL to 1.0.1e-57.el6
 - Upgraded OpenSSH to 5.3p1-124.el6
 - Upgraded HTTPD to 2.2.15-69.el6

Known Limitations:

- ▶ Q2A: Loss of PCR lock on input may result in audio output loss for several minutes before automatically recovering.
- ▶ DHCP obtains an IP address but UI displays last previously configured IP address

Hardware / Firmware Support Table:

Platform HW Revision	Serial No. Range	Last Date of Manufacture	Last Supported FW Version
4.0	5A0000 – 5A9999 5B0000 – 5B9999	Ongoing	Support ongoing
3.1	3A0000 – 3A9999 3T0000 – 3T9999 1A0000 – 1A9999 1B0000 – 1B9999 1D0000 – 1D9999	Ongoing	Support ongoing
3.0	8100 - 9999	April 2018	Support ongoing
2.0	4000 - 4999	Aug 2014	3.4.4
1.8	8000 - 8099	July 2014	3.4.4
1.7	6000 - 6999	July 2014	3.4.4
1.75	5000 - 5298	Aug 2012	3.2.2.2017.307.1139
1.5	3000 - 3999	Jan 2012	3.2.2.2017.307.1139
1.5	2000 - 2999	Nov 2011	3.2.2.2017.307.1139
1.0	0 - 1999	Jan 2009	3.0.22.2013.516.1704



Recommend Upgrade Procedure

See the UCrypt Operation Manual for instructions

1. Export the configuration (Section 12.6)
2. Clear the configuration (Section 12.7)
3. Apply cleared configuration (Section 12.4)
4. Reboot the unit (Section 11.3)
5. Perform upgrade to desired release (Section 11.6)
6. Powercycle the unit (Section 11.3)
7. Repeat steps 5 and 6 as needed until the unit is running the desired firmware
8. Import the channel configuration and apply (Section 12.5)

Service & Support

Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX 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 ATX.

TECHNICAL SUPPORT

Tel: 289.204.7800 – press 1
Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
Email: support@atx.com

SALES ASSISTANCE

Tel: 289.204.7800 – press 2
Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
Email: insidesales@atx.com

FOR HELP WITH AN EXISTING ORDER

Tel: 289.204.7800 – press 3
Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
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