

RTK-AM1 Firmware Release

V4.0 - 11/11/2025

Update time: 21 minutes.

Files included in this release:

RTK-AM1-RX

602_1048_04 MCU Application FW Version: 4.01.08

670_1048_01 Valens VS3K Base Image Version (Bank 1): 5.006.039

671_1048_01 Valens VS3K UPT Version (Bank 2): 5.006.202

674_1048_02 HDMI-DP Converter FW Version: 12601

675_1048_01 USB-C Controller FW: 02

602_1076_01 USB-Audio Application FW version: 1.00.09 (only present on RX modules with blue URL printed on face)

RTK-AM1-TX

602_1049_04 MCU Application FW Version: 4.03.03

670_1049_01 Valens VS3K Base Image Version (Bank 1): 5.006.039

671_1049_01 Valens VS3K UPT Version (Bank 2): 5.006.102

675_1049_01 USB-C Controller FW: 8.3.18

Release notes:

1. Added auto-host switching when RX DIP 2 is on.
2. Added 3rd party SCT commands for TX cable plug detection.
3. Added Cisco Expert Mode when RX DIP 3 is on.
4. Added Link quality values and cable length to log file.
5. Added Cisco communication status to log file.
6. Fixed RX firmware update endless loop when TX is not connected.

V3.0 - 10/08/2025

Update time: 21 minutes.

Files included in this release:

RTK-AM1-RX

602_1048_03 MCU Application FW Version: 4.01.00

670_1048_01 Valens VS3K Base Image Version (Bank 1): 5.006.039

671_1048_01 Valens VS3K UPT Version (Bank 2): 5.006.202

674_1048_02 HDMI-DP Converter FW Version: 12601

675_1048_01 USB-C Controller FW: 02

602_1076_01 USB-Audio Application FW version: 1.00.09 (only present on RX modules with blue URL printed on face)

RTK-AM1-TX

602_1049_03 MCU Application FW Version: 4.03.00

670_1049_01 Valens VS3K Base Image Version (Bank 1): 5.006.039

671_1049_01 Valens VS3K UPT Version (Bank 2): 5.006.102

675_1049_01 USB-C Controller FW: 8.3.18

Release notes:

7. Improved audio lock/unlock detection.
8. Removed requirement that config file needed a carriage return/line feed at the end.
9. Fixed Cisco registration ID when used with MDC6.
10. Added EDID auto-refresh when video sink is removed (HDMI and USB-C on RX)
11. Added support for external AMA and embedded AMA circuits to enable audio on Cisco USB-C destination devices from HDMI TX sources.
12. Added auto-host switching mode with RX host priority. This is only enabled for non-Cisco control modes.

V2.0 - 05/15/2025

Update time: 20 minutes.

Files included in this release:

RTK-AM1-RX

602_1048_02 MCU Application FW Version: 3.04.00
670_1048_01 Valens VS3K Base Image Version (Bank 1): 5.006.039
671_1048_01 Valens VS3K UPT Version (Bank 2): 5.006.202
674_1048_01 HDMI-DP Converter FW Version: 12301
675_1048_01 USBC CC Controller FW: 02

RTK-AM1-TX

602_1049_02 MCU Application FW Version: 4.00.04
670_1049_01 Valens VS3K Base Image Version (Bank 1): 5.006.039
671_1049_01 Valens VS3K UPT Version (Bank 2): 5.006.102
675_1049_01 USBC CC Controller FW: 8.3.18

Release notes:

1. Added support for fan speed controller and error reporting.

v1.0 - 03/14/2025: Initial public release.

Update time: 20 minutes.

Files included in this release:

RTK-AM1-RX

602_1048_01 MCU Application FW Version: 3.03.12
670_1048_01 Valens VS3K Base Image Version (Bank 1): 5.006.039
671_1048_01 Valens VS3K UPT Version (Bank 2): 5.006.202
674_1048_01 HDMI-DP Converter FW Version: 12301
675_1048_01 USBC CC Controller FW: 02

RTK-AM1-TX

602_1049_01 MCU Application FW Version: 3.02.15
670_1049_01 Valens VS3K Base Image Version (Bank 1): 5.006.039
671_1049_01 Valens VS3K UPT Version (Bank 2): 5.006.102
675_1049_01 USBC CC Controller FW: 8.3.18

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