

Release Notes – VPX Firmware

Version CR 3.8.6 – 30 April 2024

Bug Fixes

- HDCP OSD not working in Rev4
- PIP causing problems with HDCP OSD
- Audio reconnects when ip changes.
- Changing the name of a learned IR command will result in the learning process failing
- Device info modifications
- Changing the audio insertion of non-stream source will cause the stream source to be muted.
- The decoder stream audio fails after a reboot.
- KMOIP not working when the master decoder host name.
- The decoder hdmi mute fails when switching sources of paired encoder.
- The learned ir commands is missing after a reboot.
- In encoder, lineout mute not persisting in web page
- NTP server changes not retaining after a reboot.
- Bootloop issue on rev4
- IR learning web alignment modifications.

Version CR 3.8.2 – 9 April 2024

Features Added

- API to turn on and off the sink connected
 - Audio page changes
 - Added AES67 support
 - Included Audio and HDCP information in statistics of diagnostics tab.
 - genlock auto mode
 - auto scaler default to enable
 - Add support for 720p scaler
 - Reset config
 - OSD on HDCP failure
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- Disabling CECOIP/ KMOIP in LT
- Mute audio interfaces while switching
- Enable and disable the USB ports for host and device.
- Audio extraction in Decoder
- API for device HDMI state and status
- NTP implementation
- Get video encryption command
- Webpage changes
- Live log auto scroll
- Test pattern as source for encoder input
- EDID Checksum ignore in decoder.
- Dante pairing via web page.

Bug Fixes

- Rev4 Decoder reboots when sink is connected and set to static ip mode
- get settings response fix.
- Decoder reboots multiple times before becoming stable
- Audio selection not retaining in the web
- Audio page fixes
- Video crop at decoder output due to faulty VIC
- Dante audio stream bug in apple TV
- Encoder input source switching issue in Rev 9/10.
- Decoder reboots when changing usb routing while using roaming mouse
- Changed the index of hotkey from 0 to 7 to 1 to 8 in web.
- The preview of the decoder remains unchanged when a stream is selected following local input.

Version CR 3.6.2 – 16 February 2024**Features Added**

- Compatible with all VPX devices.
 - OLED screen saver customisation.
 - KMOIP roaming feature.
 - Hot key feature.
 - Event broadcast through telnet
 - Video source switching
 - Autosense
 - Front panel lock
 - Audio source switch
 - HDMI audio insertion
 - Audio mute
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- Audio volume change
 - Audio stream selection
 - Global AV mute
 - Routing selection
- Hotplug status API
- File based IR
 - IR command send from file
- VPX model in web UI
- Channel ID in EPG instead of host ID
- API for get HDCP status
- Support for IPBaseT Manager
 - Diagnostics Mode
 - RDT support

Bug Fixes

- EDID parse fix for set edid VPX API command

Known Issues

- The KMOIP has issues with EPG transparency, when the device os booted up with the USB plugged.
- The roaming mouse feature, when the mouse is being actively moved in a roaming window and a remote stream switch is done, the device crashes and boots backup.
- **Some settings of IR learning feature are not working. This is releasing as a Beta Feature, and it is under testing.**

Version CR 3.2.30 – 23 January 2024**Features Added**

- VPX API for boot count

Bug Fixes

- Fix for Realtek hang.
- Fix for Webpage not loading on some boot.
- ULL disabled for default configuration.

Version CR 3.2.26 – 22 December 2023**Features Added**

- Auto Scalar support
 - Channel map feature.
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Bug Fixes

- Web page not loading.

Version CR 3.2.20 – 27 November 2023

Bug Fixes

- Realtek issue fix

Version CR 3.2.19 – 15 November 2023

Feature Added

- Network watchdog Recovery
 - Realtek logging before MAC reset.
 - Counter via API to see the number of watchdog trigger
 - Web control in Device settings.
 - Added Network watchdog API.
 - Added Poll time API.
- Mono Audio Feature in lineout.
- Added API to get link speed.
- Log Download from web
- CEC Volume Up/Down

Bug Fixes

- USB fail on HDMI capture device

Known Issues

- Poll time API has no response
- In Encoder, after applying mono audio setting, lineout settings should reapply.

Version CR 3.2.14 (SDK A9.17.9) – 26 October 2023

Feature Added

- Commands Added
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- `get remote_hostname <all | video | audio | ir | usb >` : If no arguments are given the command will output remote-hostname video
- `get stream resolution` : output the stream resolution of ASPEED stream
- `get route_info` : Outputs Multicast IP,Status,Remote hostname and enabled disabled status in JSON format
- `get encoder_remote_src` : Outputs remote source of Encoder(Only for Encoder devices)
- `get decoder_out_src` : Outputs the Local out source of Decoder(Only for Decoder device)
- `get encoder_localout_src` : Outputs the localout source of Encoder(Only for Encoder devices)

Bug Fixes

- Fixes in get settings command response.

Version CR 3.2.12 (SDK A9.17) – 20 October 2023**Feature Added**

- Live log view and download from webpage

Bug Fixes

- Join failed using API command.
- Reboot issue fix.

Version CR 3.2.6 (SDK A9.17) – 27 September 2023**Bug Fixes**

- When the console is disabled, there are some data shows in the console only on the booting.

Version CR 3.2.4 (SDK A9.17) – 22 September 2023**Feature Added**

- Add support for joining streams using IP address.
 - CEC source Switch support.
 - PIP
 - HDMI local out Enable/Disable support
 - Auto scaler support.
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Bug Fixes

- Fix for Dante audio pop issue.
- Fix for PIP pink screen issue.

Known Issues

- When the console is disabled, there are some data shows in the console only on the booting.

Version CR 2.5.6 (SDK A9.13) – 06 September 2023

Feature Added

- VPX Web page refinements.
- API added for getting local display source and stream source.
- Left OSD disabled when device info is disabled.
- Added Splash screen image 1920x1080 validation.

Version CR 2.5.2 (SDK A9.13) – 25 August 2023

Bug Fixes

- Joining all streams from multiple decoders to an encoder causes encoder to crash

Version CR 2.5.0 (SDK A9.13) – 24 August 2023

Feature

- Auto scaler
- Join AV command
- HDMI localout off/on
- Add support for 4k60-4:4:4/4:2:2/4:2:0

Bug Fixes

- Source switching bugfixes
- Audio pop issue
- Encoder Local out blanking

Version CR 2.4.20 (SDK A9.13) – 08 August 2023

Bug Fixes

- VLAN issue fix.

Version CR 3.0.1 (SDK A9.17) – 01 August 2023**Bug Fixes**

- VLAN issue fix.

Known Issues

- Delay for Dante audio stream to start with Netgear switch (**Works fine in CISCO switch**)
- On Factory resetting the VLAN enabled device, device needs a power cycle.

Version CR 2.4.18 (SDK A9.13) – 28 July 2023**Bugfixes**

- Poly G7500 is failing HDCP Neg when connected to pro decoders.
- Analog audio issue fix.
- Dante VLAN issue fix.

Know Issues

- Video VLAN not working when Software Dante VLAN is enabled.
- The audio output from the Dante VLAN on the Netgear switch takes some delay.

Version CR 2.8.9 (SDK A9.17) – 25 July 2023**Bugfixes**

- Poly G7500 is failing HDCP Neg when connected to pro decoders.
- Analog audio issue fix.
- Dante VLAN issue fix.

Know Issues

- Color space not supporting with some displays with latest SDK. We are working on the fix.
- Video VLAN not working when Software Dante VLAN is enabled.
- The audio output from the Dante VLAN on the Netgear switch takes some delay.

Version CR 2.4.12 (SDK A9.17) – 07 June 2023

Feature

- Rev10 inclusion/exclusion list while updating Rev9

Version CR 2.4.10 – 15 May 2023

Feature

- Audio insertion in Rev 9 & LT decoder
- All Rev 9 TC1 – Pro boards with serial number greater than 5181, will be change to Rev 10 TC1 – Pro (software support for noise reduction, removal of R200).

Bugfixes

- Selected Channels are not correctly initialised in routing web page.
- Remove SL NO in info page
- Hostname prefix take -enc or -enc- as hostname.
- No native audio if dante is enabled
- Secondary update issue

Version CR 2.4.4 – 20 April 2023

Bugfixes

- SOIP issue fix
- Secondary boot issue fix

Version CR 2.4.3 – 13 April 2023

Bugfixes

- SOIP issue fix

Version CR 2.4.2 – 31 March 2023

Features

- CEC Over IP in LTE
 - USB auto leave
 - VPX Device Info: Web page shows Full Host name amongst the info.
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Bugfixes

- Enabling Dante in wall plate.
- Dante fix for older Rev4 release.
- SFP bug fix
- Rev 9 Encoder Faulty resolution displayed on OLED
- Audio page clean ups

Known Issues

- Native decoder audio fails when enable Dante on WP.

Version CR 2.2.0 – 27 March 2023

Features

- Single firmware for Rev9, Rev4 and LT.
- Support to Leave breakaway streams.
- Hostname validation in web/API.
- Serial number should be displayed in full SNA.
- Support to enable/disable web authentication. By default, it will be enabled.
- Audio routing features
 - Line In to Line out routing
 - Audio insertion in Encoder
 - Dante software
- Video source unavailable timeout.

Bugfixes

- Version caching fix in web page.
- Fix for get settings incorrect command response.
- Rev 4 encoder loop out not working on DELL monitor when reconnecting.
- Audio webpage changes to enhance useability.

Version CR 2.1.2 – 20 March 2023 [VPX LT ONLY]

Features

- Audio routing features
 - LineIn to LineOut routing
 - Audio insertion in Encoder
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- Dante software

Bugfixes

- Fix for wrong resolution in OLED

Known Issues

- Encoder: Muting HDMI audio not functional (routing "none" to stream)
- Decoder: Linein to lineout routing only works if connected to an encoder
- HDCP not updating properly in OLED on reboot

Notes: Power cycle the device after SPI flashing. This Release is LT only.

Version CR 2.0.12 – 10 March 2023 [VPX LT ONLY]

Features

- Add support for VPX LT hardware.

Bugfixes

- Nil.

Known Issues

- The OLED will not work in secondary boot after SPI flash. This occurs rarely. If it happens, a reboot will fix the issue.
- Support for Dante is not added.

Notes

- Nil

Version CR 2.0.6 – 24 Feb 2023 [VPX Rev 9 ONLY]

Features

- Add support for Rev 9 hardware revision.

Bugfixes

- Nil.

Known Issues

- Support for Dolby vision is not added.
- Support for Dante is not added.
- HDCP2.2 & NO HDCP source don't work together with the HDCP1.4 monitor. We can downgrade the HDCP in encoder to 1.4 to make it work.

Notes

- PIP feature is disabled in this release and the EPG will be always ON.

Version CR 1.6.1 – 20 Jan 2023**Features**

- Webpage refinements.

Bugfixes

- Fix no video issue when an un-encrypted source is streamed to a HDCP unsupported monitor connected to a decoder.
- SOIP enable status not retaining on reboot
- Disable fast switching mode when a HDCP unsupported monitor is connected.

Known Issues

- Device ID not showing in “No signal screen”.

Notes

- PIP feature is disabled in this release and the EPG will be always ON.

Version CR 1.4.0 – 12 Jan 2023**Features Added**

- Restructured join commands

Bugfixes

- Fixed Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
- Device mode changes while factory reset
- Disabled front panel keys while Web update
- Improper alert while uploading wrong channel map file
- LED indication missing for fw update from IPBT-manager
- Implemented fast switching enable/disable feature at decoder.
- Removed HDCP force option from encoder.
- Decoder failed to connect to encoder from EPG after hostname change

Known Issues

- No signal image showing for few seconds when Preview is enabled and device reboots.
- Device ID not showing in "No signal screen"
- EPG/Preview has to be restarted when Device info Enable/Disable is applied.
- Randomly no signal screen appears for 2secs while streaming.

Version CR 1.2.0 – 4 Jan 2023

Bugfixes

- Join API command not working after host name changed.
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- Uploading a bitmap/channel map takes a long time.
- Aurora Remote is not working when reselecting the Aurora remote after turning off the IR remote.

Known Issues

- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
- No signal image showing for few seconds when Preview is enabled and device reboots.
- Device ID not showing in "No signal screen"
- EPG/Preview has to be restarted when Device info Enable/Disable is applied.
- Update LED indication is missing in wall plate when update via IPBaseT Manager.
- Randomly no signal screen appears for 2secs while streaming.

Version CR 1.1.0 – 29 Dec 2022**Bugfixes**

- Fix for Force HDCP option not working.

Known Issues

- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
 - No signal image showing for few seconds when Preview is enabled and device reboots.
 - Device ID not showing in "No signal screen"
 - EPG/Preview has to be restarted when Device info Enable/Disable is applied.
 - Update LED indication is missing in wall plate when update via IPBaseT Manager.
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- Randomly , the decoder disconnects from encoder and failed to connect, when changing the IP modes.
- Randomly no signal screen appears for 2secs while streaming.
- Uploading a bitmap/channel map takes a long time.
- Aurora Remote is not working when reselecting the Aurora remote after turning off the IR remote.
- Join API commands not working : when switching between 2 encoders, video streaming failed.

Version CR 1.0.3 – 21 Dec 2022

Features added

- Changed Super security mode default setting to off

Bugfixes

- Fixed unnecessary reboot banner in the network page on IP Mode change

Known Issues

- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
- No signal image showing for few seconds when Preview is enabled and device reboots.
- Device ID not showing in "No signal screen"
- EPG/Preview has to be restarted when Device info Enable/Disable is applied.
- Update LED indication is missing in wall plate when update via IPBaseT Manager

Version CR 1.0.2 – 19 Dec 2022

Bugfixes

- Fixed serial number is not showing in OLED Screen issue
 - Fixed encoder webpage is not available in static IP mode issue
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Known Issues

- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
- No signal image showing for few seconds when Preview is enabled and device reboots.
- Device ID not showing in "No signal screen"
- EPG/Preview has to be restarted when Device info Enable/Disable is applied.
- Update LED indication is missing in wall plate when update via IPBaseT Manager

Version CR 1.0.0 – 14 Dec 2022**Features Added**

- Latest Aspeed SDK A9.13.1 (Build 5123)
- Super security mode
- VPX Wallplate fan speed control
- VPX LED indications in secondary
- HDMI Signal mute on No video
- 802.1X feature

Bugfixes

- PIP/EPG general alignment fixes
- Minor UI bug fixes

Known Issues

- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
 - No signal image showing for few seconds when Preview is enabled and device reboots.
 - Device ID not showing in "No signal screen"
 - EPG/Preview has to be restarted when Device info Enable/Disable is applied.
 - Update LED indication is missing in wall plate when update via IPBaseT Manager
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- Device MAC and Serial number will not show in encoder OLED.

Version CR 0.28.2 – 10 Dec 2022

Features Added

- Latest Aspeed SDK A9.13.1 (Build 5123)
- Super security mode
- VPX Wallplate fan speed control
- VPX LED indications in secondary
- HDMI Signal mute on No video
- 802.1X feature

Bugfixes

- PIP/EPG general alignment fixes

Known Issues

- After bitmap Apply, device requires a reboot.
- Resolution detection of GscooLink is not proper when input source is 4K YUV420. Which restricted EPG to render properly and PiP won't be visible.
- No signal image showing for few seconds when Preview is enabled and device reboots.
- Device ID not showing in "No signal screen"
- EPG/Preview has to be restarted when Device info Enable/Disable is applied.
- Update LED indication is missing in wall plate when update via IPBaseT Manager

Version CR 0.26.1 – 23 Nov 2022

Features Added

- Fast switching with HDCP support
 - EPG Usability improvements.
 - 'Enable/Disable Sensitive information' option (Device info) added
 - No signal image when no video is available in PiP mode.
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Known Issues

- After bitmap Apply, device requires a reboot.
 - Resolution detection of GscooLink is not proper when input source is firestick. Which restricted EPG to render properly and PiP won't be visible.
 - No signal image showing for few seconds when Preview is enabled and device reboots.
 - Preview changes position when No signal image is showing
 - EPG/Preview has to be restarted when Device info Enable/Disable is applied.
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Version CR 0.24.0 – 2 Nov 2022***[Release exclusively for TX1-WP2-PRO]*****Features Added**

- HDMI Source routing with status LEDs
 - Auto sense support
 - HDCP 2.2/1.4 support
 - EDID bypass from decoder
 - USB HID/USB2.0 support
 - Serial Over IP
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Version CR 0.22.2 – 24 Oct 2022**Features Added**

- Global AV Mute
- VPX/VLX update guard
- Audio/USB/IR breakaway
- Telnet/SSH default disabled

Known Issues

- Sometimes while using Apple tv as source of Encoder, When we set Video mute from Global AV Mute the decoder is outing gray video.
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- When we switch the video in the encoder side, rarely there will be glitches in the video/audio feed. This happens when we set Apple TV as source in Encoder.

Version CR 0.18.1 – 31 Aug 2022

Features Added

- Default values of Analog Audio Source and Dante Audio Source changed to HDMI
- Added VPX API for CEC

```
cec_send tv_off
```

```
{"status":"SUCCESS","error":"NULL","command":"cec_send tv_off"}
```

```
cec_send tv_on
```

```
{"status":"SUCCESS","error":"NULL","command":"cec_send tv_on"}
```

Bug Fixes

- Update fails while we update from IPBaseT Manager

Note: Please update this firmware via webpage if the device is loaded with firmware version greater than 0.12.0. After loading v0.18.1 you can use any update procedures.

Version CR 0.18.0 – 30 Aug 2022

Features Added

- Support to turn on and off OSD info [in device settings]
 - Adding reboot button with reboot alert
 - Video wall advanced 8x8 avoid scrolling
 - Adding info text with loading spinner
 - Remove option to separately set encoder local and stream source
 - Added 4k60 444 scaler support
 - Web page rearrangements
 - SOIP IP shown not shown in IPBaseT Manager
 - Video local and remote fast switching, for remote use scaler output and fast switch hdcp feature.
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Version CR 0.12.0 – 8 July 2022

- Dump eeprom content in SFP
Usage: `cat sys/devices/platform/rtk_switch/eeprom_content`
- Avoid reboot after IP mode change.No need to reboot the board to reflect ip mode change
- Aspeed SDK changes A9.9.0 (Build 5087)
- Aspeed SDK changes A9.10.1 (Build 5096)
- Fix for audio loss when youtube audio is changed while streaming.

Version CR 0.10.0 – 15 June 2022

- PiP
- Added SSL certificate for web server
- Added REST like secure APIs for APIs

Version CR 0.8.2 – 6 May 2022

- Fix for Decoder video not working

Version CR 0.8.0 – 6 May 2022

Featured Added:

- Rev4 porting
HDMI 1 & 2 swapped in the layout

Version CR 0.6.2 – 29 April 2022

Features Added:

- IP change update on OLED
 - Telnet api for chmap file upload
Usage -> `chmap_ir upload <filename> <serverip>`
 - Auto,static and DHCP support in secondary image
 - OLED support for Secondary image
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- OLED status for FW update from web
 - Release with stability fix from Aspeed
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Version CR 0.5.2 – 11 March 2022

Features Added:

- VPX web page redesign
 - VLAN support for dante/video.
 - Realtek driver SDK Integration.
 - Copper and Fiber SFP support.
 - Audio insertion support for local and stream video source.
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Version CR 0.2.0 – 11 Feb 2022

Features Added:

- Support for hardware revision 2
 - Fail safe image support
 - HDCP support
 - Auto IP, static IP and DHCP support
 - Network authentication for web
 - Video information on OLED
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Version CR 0.0.8 – 21 Dec 2021

Bug Fixes:

- Fix for FW update failure from CR 0.0.4 to CR 0.0.6 using webpage
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Version CR 0.0.6 – 20 Dec 2021

Features Added:

- Auto sense
- Support for setting serial number, mac id and hardware revision
- Different source selection for local and remote
- IR Channel Mapping
- Factory resetting the device by pressing menu and enter button for 3s and also via telnet api
- Enable and disable logs using telnet API
- Device mode switch using buttons
- Button lock
- EDID transfer from client to host
- Batch update
- Bitmap feature
- Channel map file upload
- eARC feature

Aspeed changes:

2021/11/05. A9.7.0 (Build 5068)

- [fix][ve][rc] Improve VE rate control especially BHH case. 'DEC1 not done' issue is resolved.
 - [fix][ve][rc] AST1530-480. Avoid YUV420 first 8 slices corrupt.
 - [new][clk] Add 5340 OPN/Design id check.
 - [fix][astparam] flush update CRC
 - [fix][astparam] astparam error log stdout to stderr.
 - [fix][astparam] keep flash 0/1 content is same.
 - [fix][kernel][mac] Set up PHY INT sensitivity properly after MAC reset. This commit hotfixes endless PHYSTS_CHG INTs issue found on board v1.3.
 - [u-boot] Make sure HW strap is set to the expected default on SIRQ workaround boards.
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- [fix][u-boot] Decide new board for false SIRQ patch via nandtree mode exit and skip AST1535 reset sequence for legacy board if a new board is identified.

This commit fixes false SIRQ issue triggered via a SW reboot.

- [fix][u-boot][bus_rgmii] Use ACE GPR as test data area to avoid Hbus death introduced by BUS_RGMII delay calibration.
- [fix][vhub] fix for iso devices
- [fix][video] typo fix for timing, 2048x1536, clock configuration

2021/10/22. A9.6.0 (Build 5067)

- [new] Dual rw partitions for astparam
 - [fix][video] AST1530-516. HDCP information didn't get updated
 - [fix][ss] AST1530-445. Abnormal substream display after host reboot
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