

IP-4d

Release Notes

Version 1.04.4

20.06.2024



IP-4d Release Notes

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Version 1.04.4

20.06.2024

Fixed Issues

- Fixed AES67 output clock inaccuracy

Version 1.04.3

13.06.2024

Fixed Issues

- The AES67 outputs may exhibit timestamp jumps in certain cases, e. g. when a SIP call is terminated
- The optional Dolby decoder did not work correctly and produced audio glitches
- Fixed some problems with the optional Live Listening feature

Version 1.04.2

07.06.2024

Changed Functionality

- File playback did only support files < 2 GB
- Added support for WAV files with BW64/RF64 file format

Fixed Issues

- PTP might not work correctly in certain environments
- PTP might not be active after loading a settings file with a corresponding configuration
- Changing the SNMPv3 authentication protocol (MD5 <-> SHA1) did not work
- After IP address change the SRT decoder (in Listener mode) did not receive any SRT streams
- Headphone Downmix did not work in Analog/Digital Mode

Version 1.04.1

29.05.2024

Fixed Issues

- When doing "Load factory settings", the user account passwords were not reset to default
- When loading a settings file, the user account passwords were not taken from the loaded settings file



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- The optional low symbol rate SAT tuner did only work with symbol rates down to 100 kSym/s. This limit is now reduced to 64 kSym/s
- The metronome icon on the Overview page (which should signal external clock usage and its state) was not shown appropriately
- The AES67 output may provide packets that are “too early” in certain situations



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Version 1.04

24.05.2024 – identical to 1.04-rc7

New Functionality

1.04-rc6

- Added parity configuration for DTE outputs

1.04-rc5

- Added traceroute possibility to the web interface (Network Settings / TCP/IP / Tools)

The screenshot shows the 'Network Settings' page with the 'TCP/IP' tab selected. Under the 'Tools' sub-tab, there are two sections: 'Ping' and 'Traceroute'.

Ping Section:

- Settings:** Destination: heise.de, Interface: Data 1, Count: 5, TTL: 255, Data size (0=default): 0.
- Output:** PING heise.de (193.99.144.80): 56 data bytes. 64 bytes from 193.99.144.80: seq=0 ttl=247 time=10.199 ms. 64 bytes from 193.99.144.80: seq=1 ttl=247 time=10.105 ms. 64 bytes from 193.99.144.80: seq=2 ttl=247 time=9.901 ms. 64 bytes from 193.99.144.80: seq=3 ttl=247 time=9.894 ms. 64 bytes from 193.99.144.80: seq=4 ttl=247 time=9.773 ms. --- heise.de ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 9.773/9.974/10.199 ms.

Traceroute Section:

- Settings:** Destination: heise.de, Interface: Data 1, Max. hops: 5, Time to wait: 3.
- Output:** traceroute to heise.de (193.99.144.80), 5 hops max, 38 byte packets. 1 192.168.96.1 (192.168.96.1) 0.212 ms (64) 0.221 ms (64) 0.192 ms (64). 2 mx204-2.ham.purtel.com (185.39.84.9) 7.292 ms (254) 4.488 ms (254) 4.079 ms (254). 3 * * *. 4 100.83.140.3 (100.83.140.3) 3.414 ms (252) 3.503 ms (252) 3.845 ms (252). 5 be100.c350.f.de.plusline.net (80.81.193.132) 10.210 ms (251) 10.138 ms (251) 10.077 ms (2).

- Added event log entries when loading a settings file or loading factory settings
- Settings files can also be uploaded via the Storage page

The screenshot shows the 'Status' page with the 'Storage' tab selected. There are two main sections: 'Data storage' and 'Upload file'.

Data storage Section:

- Internal Storage:** 72% full, 1758.1 MB free of 6282.7 MB.
- Audio files:** A list of files with columns for Filename, Date (UTC), Size, and a Delete button.

Upload file Section:

- Supported types:** Audio, firmware, and settings files.
- Upload button:** A button to upload files.

Filename	Date (UTC)	Size	Delete
IP-4c_740.000145_config.xml	12.03.2024 08:53:52	4.4 MB	Delete
IP-4c_740.000855_config.xml	12.03.2024 08:54:24	3.8 MB	Delete



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- When generating a settings file on the Global page you can now not just only download the file, but also save it to the internal storage. You can also directly change the name of the settings file.

- Once there are settings files on the internal storage the user can select one of the stored files instead of uploading one and load it via the new consolidated Upload/Activate section, thereby having a sort of preset functionality, allowing to quickly switch between different configurations.

- Added an event log entry when setting a GPO by GPI tunneling
- 1.04-rc1
- Added entries to the extended log in case of CC (continuity count) errors in transport stream decoding

Changed Functionality

1.04-rc6

- The PTP configuration did only allow to configure a single IP interface, providing no backup functionality in case PTP fails on that interface. Now all interfaces configured for streaming data (under Network Settings / Services) will be used for PTP, automatically switching between the interfaces when needed
- Updated Fraunhofer libraries to latest versions
- RDS Databridge (optional): If no RDS update is received for a period of time, the Databridge can switch the RDS encoder to a "Fallback DSN".

1.04-rc5

- The different upload sections on the Global web page (Firmware, Settings, Rights, SSL Certificate) were consolidated to just one section allowing to upload every of the four kinds of files

- The manager user can be granted limited access to the Global web page, allowing just to switch between different configurations
- Cleanup of SRT / TS/SRT Overview info block fields
- Reduced sensitivity of the jog wheel for better user experience when doing configurations via the LCD menu
- Changed Load Factory Settings via LCD menu to new method without reboot



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1.04-rc1

- Loading settings via the web interface will show a warning when trying to load settings from a different device type. The settings can still be loaded, though, as many settings are of general nature.

Fixed Issues

1.04-rc7

- AES67 output did not work, when no External Clock was configured (since firmware V1.04-rc6)
- The audio buffer configuration did not work with small audio buffer values for the TS/Demux input sources. The overall delay was significantly higher compared to our old FlexDSR series for certain audio streams (with more than one audio frame inside one PES frame). This should now be almost on par.
- Elementary stream input sources with multicast addresses were re-initialized when saving although no relevant changes were made

1.04-rc6

- Fixed audio buffer drift in case of enabled external clock (PTP/1PPS) and enabled sample rate converter
- Web interface: session timeout did no longer work
- SRT input stream will be only restarted if parameters were changed
- Standby input sources were no longer activated when needed - Fixed
- UDP ancillary output status did not always work
- When switching from PTP to internal clock, the audio outputs had a short distortion
- Changing the sample rate converter configuration of one audio output did disturb all audio outputs
- Web interface: on the Login page the user name field now has the focus on page load to allow immediate typing without the need for the additional click into the field
- Web interface: for elementary stream and TS/IP input sources not applicable configuration options are getting hidden in case of UDP protocol selection
- Icecast client: enhanced compatibility to OGG/FLAC streams
- RDS Databridge (optional): the EON TA functionality does now respect the EON PI configuration and will not react on EON Ta from a service with a different PI then the configured one
- Improve robustness of the TS decoder (could hang up completely on bad input data, stopping TS processing completely)
- TS private data decoding may stop after bad weather and disturbed SAT reception
- file playback can be disturbed (since firmware 1.04-rc1) -> the minimum configurable audio buffer has been increased to 100ms

1.04-rc5

- GPI Forwarding may have some issues when an input source with GPI Forwarding enabled is used for more than one audio output on different backup levels
- Fixed Icecast client issues with Icecast streams with ContentType audio/mpegurl
- When switching between different elementary streams (e. g. Ravenna streams) the device may crash and gets unresponsive
- General security and access control improvements
- Again: Improved PTP synchronization of AES67 output, improving AES67 output stability
- PTP did only work with domain 0
- Enhanced compatibility to AAC encoded in short frame mode



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- Changing just the audio buffer level of an input source is not (always) applied
- Fix the possibility that the TS decoder does not provide the service list (showing 0 services)
- After settings updates (loading a settings file or loading factory settings) input source changes may not be applied
- TS/Demux: the audio buffer is automatically adjusted to the PES frame length if the configured value is too low to avoid audio buffer underruns
- DTE output configuration with Private Data MPE demux can disturb other DTE output

1.04-rc1

- Under high CPU load IP packets may get lost and reported as missed
- Under high CPU load the audio output may get distorted (event log showing FPGA underruns)
- When doing “Load Factory Settings” and unplugging the power immediately after completion, the new (default) settings might not have been saved
- The AES67 output may still not be synchronous to PTP
- High CPU load in case of incomplete TCP connections (Icecast/HLS)
- Optional HLS decoder: Improved compatibility
- Web interface: the page heading may show an incorrect title when some menu entries are disabled



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Version 1.03

02.02.2024 – identical to 1.03-rc8

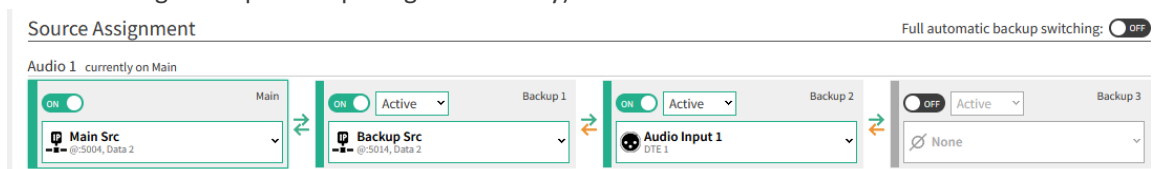
New Functionality

1.03-rc3

- SAT Tuner: added the frequency offset to the status parameters
- SRT: added source address and port as well as uptime (time since last connection start) to the decoder status information
- When loading settings via the web interface it can now optionally include the TCP/IP configuration
- Added the IP interface link status to the IP interface selection in the different configuration dialogs
- Added speed selection (Auto / 1000 Mbit / 100 Mbit) to the TCP/IP interface configuration. Sometimes auto negotiation does not work correctly. In this case a manual configuration might help.
- Added missing VLAN support to SRT configurations
- For security reasons the password hashes of the user accounts are no longer stored as MD5, but as bcrypt hashes. The migration will be done automatically.
- Added the possibility to update the firmware locally from USB
- Added the fan status to Status→Device in the web interface (needs System Controller firmware 1.07)

1.03-rc1

- Added the possibility to configure individual switch criteria per input source
Instead of having one global switch criteria configuration per input source type each input source can now have different switch criteria, e. g. different levels and times for the audio silence detection. To allow this each input source configuration dialog now has an additional tab allowing to enable and configure individual switch criteria.
This change did also introduce a new visual appearance for the configuration dialogs.
- The fully automatic switching between the different decoder ranks (Main, Backup1-3) in both inferior and superior direction can now be deactivated. It will then allow you to configure, if the backup switching between two decoder ranks should be automatically done in both inferior and superior direction (as it's done by default) or if the automatic is only allow to switch in inferior direction.
The switch back to a superior input rank will then not be done automatically but only on user request (e. g. after checking the superior input signal manually).



- Added the possibility to locally load settings from and save settings to USB via the LCD menu.
The settings loading from USB can be done in two different ways – one without and one including the TCP/IP configuration.
- Added the possibility to access the latest 50 event log entries via external API (e. g. SNMP)
- Added SNMP traps for detected local GPI and remote GPI (GPI Forwarding) changes
- Added the possibility to enable an automatic firmware update check, giving a hint in the web interface, that a new firmware is available without the need to manually check it



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- Some minor improvements to logging of SRT drops and connect in extended log

Changed functionality

1.03-rc3

- The individual gain adjustments per input source can now be done with a resolution of 0.01 dB steps
- “Load factory settings” from within the web interface does no longer require a reboot

1.03-rc1

- Loading settings via the web interface will no longer require a reboot of the device, but will be done very quickly (within a few seconds)

Fixed Issues

1.03-rc8

- SPN and SFN did not work, 1PPS input status was still broken

1.03-rc7

- When doing “Load Factory Settings” some settings may not be back to default, but only after a reboot
- When uploading and activating a settings file some settings may not be activated correctly and may need a reboot
- Icecast streams with FLAC codec did not work
- Audio on headphone may be distorted if listening to an audio input with disabled SRC
- Long Icecast URLs containing the ‘&’ character failed to be imported via the settings file
- The audio output can get distorted when the audio outputs have the digital reference input enabled and a decoder input source is providing audio with a sample rate different than the one from the audio reference input (can happen e. g. with a SIP input source and an incoming call with e. g. G.711/722 as the codec)
- The AES67 output may not be synchronous to PTP
- Fixed none working 1PPS input status since firmware 1.03-rc6

1.03-rc6

- Fixed potential high amount of audio errors due to FPGA audio buffer underrun
- Fixed visual problems with the TS Demux service select update/refresh
- SAT tuner alarms were swapped between RF1 and RF2

1.03-rc5

- The web interface can get unresponsive on the Overview page, when an input source description is longer than one line and changes its content regularly (e. g. in case of file playlists)
- The AES67 output may not be synchronous to PTP
- Individual switch criteria changes of an input source were not applied immediately
- Wrong individual switch criteria for the file input sources

1.03-rc4

- A bad combination of two changes introduced in firmware 2.14-rc5 (migrating password hashes from MD5 to bcrypt and doing “Load factory settings” without reboot) could lead to the impossibility of being able to login to the web interface after having done “Load factory settings”.
A reboot would fix this problem, but one might not be able to initiate the reboot due to the impossibility to login to the web interface.



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- Ancillary data from Icecast input sources may not be put out on device startup
- The audio error counter may not increase for very small buffer underruns
- PTP clock synchronization for AES67 output improved
- DNS configuration per interface did not work via LCD menu
- Optional SAT tuner: if reception gets interrupted due to e. g. bad weather conditions for a longer period of time, the device might fail to re-establish tuner lock (with the normal dual tuner EXM01)

1.03-rc3

- External clock configuration: a reconfiguration from an already configured and valid clock source (e.g. from PTP to PPS) was not handled correctly
- SNMP:
virtCslAudioDecoderStatusAudioDecoderstate (1.3.6.1.4.1.21529.1001.35.2.3.4.37.3.4096.1.7) did not always provide the correct state
- Optional decoder ancillary data is now also shown on the Overview page if the input source is not the currently active one
- Configuration changes done in the Codec dialogs may not get saved, when the dialog is left while the new (individual) Switch Criteria tab is selected
- SAT tuner status may get unavailable (e. g. after disabling/enabling a SAT input source)
- Extended log entries for missed RTP packets may have empty stream names, if the packet was lost in a redundant (DualStreaming) or FEC stream
- Saving settings to USB may fail, if the USB stick is removed too quickly after the OK message is shown
- Fix visible name field in TS/Demux configuration when in "Service from list" mode
- Device could hang up when the audio file belonging to a file input source is not present (e. g. after loading a settings file)
- The new individual switch criteria did not work correctly (were not applied correctly)
- Fixed a high CPU load problem when many AES67 receive streams are configured
- MPEG TS decoder: enhanced audio decoding compatibility of RTP streams inside MPE
- Synchronized Playout did not work correctly without SFN license
- Ember+ improvement for read-only items (in the virt subfolder)
- Some special characters in the name fields of the input sources etc. could mess up the display of the defined settings in the web interface

1.03-rc2

- Fixed a problem with the second audio output when the sample rate converter is activated and a digital reference input is used (the audio buffer will not be stable and drifting slowly, either running empty or increasing)

1.03-rc1

- With the optional low symbol rate SAT Tuner the device still could fail to re-establish tuner lock and the audio outputs stay silent if reception gets interrupted due to e. g. bad weather conditions
- SNMP monitoring status was not reset to "disabled" if all input sources are getting disabled
- SNMP monitoring status / Warning LED / Relay were not reset (e. g. for the "Audio – No Input Data" alarm) if all input sources are getting disabled
- The optional SAT Tuner alarms are no longer triggered if the tuner is inactive (unused)
- Alarm "No Input Data" did not check if PES/MPE data is present in case of TS/Demux input source



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- Fixed "good" check for ES input source switch criteria "No input data" (T1 time was not considered correctly)
- Fixed "good" check for file input sources (were always bad since latest firmware when "No Input Data" switch criteria was activated)
- Fix AAC-ELD(v2) ES decoding not working when Decoder type is explicitly set accordingly
- File playback from playlist was broken since latest firmware 1.02
- VLAN interfaces were not correctly activated after a firmware update
- When updating the recovery bundle the wait page was shown endlessly
- FEC: Fix audio frames being unnecessarily recovered in case of 1x4 matrix

Known bugs

- xHE-AAC: Ancillary data and GPIO Forwarding does not work



IP-4d Release Notes

Version 1.02

27.07.2023

New Functionality

- Added compatibility to Qbit GPIO Forwarding in ancillary data
- Added Mono Downmix option to headphone output
- Added a new status value providing the delta time between the two streams in RTP DualStreaming setup
- Added configuration option to possible Mono Downmix for the audio outputs, allowing to select the Mono output being either a mix from left and right channel or only the left or right channel
- Added Mono Downmix option to headphone output
- Decoder backup switching events do generate now event log entries (finally) with the cause of the backup switching (in case of inferior backup level activation) and the backup level which was activated. A corresponding SNMP trap will also be sent out.
- The event log web page will now update automatically when new events arise while having the page open
- First steps to more advanced / extended logging:
For some events, which were previously only counted (like missed packets) there's now the possibility to check the point in time when these events occur. There's a new "Extended Log" tab on the Log web page, which shows these events. Currently we added events for RTP Rx start, RTP missed packets, RTP unrecovered packets and RTP Rx timeout and SRT connect/disconnect.
Like the counters this extended log is volatile, meaning it is cleared after a reboot. If syslog is enabled, these events will however also be sent out to syslog, making them externally persistent.
- Released REST API that enables customers to use an Open API 3.0 compliant API to control and monitor 2wcom's devices.
 - More info about Open API 3.0 can be found [here](#).
 - The API can be enabled and browsed on page "External APIs" -> "REST API".
 - The openapi.json for the device and additional documentation can be found on the devices page "External APIs" -> "REST API".
- Added alarm/monitoring for the optional ASI input
- Added interface (and VLAN) selection to the SNMP trap manager configuration

Changed functionality

- Invert setting in GPO configuration had no influence on reported GPO state via Livewire
- RTP dual streaming improved
- Reported Livewire GPI/GPO states are now high in default state and low in triggered state
- SRC/DST name size increased for Livewire Routing Protocol (LWRP) from 15 to 25 characters
- The Icecast Server did still answer with "ICY 200 OK" to a connection request and only for certain user agents / browsers with "HTTP/1.0 200 OK". For some time now the ICY answer is however deprecated and should no longer be used, so we do now always answer to a connection request with the HTTP answer, thereby hopefully improving the general compatibility of the Icecast server to certain clients.



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Fixed Issues

- Fix status problems of optional DAB tuner (RF level etc. are reported as faulty sometimes, although this is not true)
- SAT Tuner: Fixed BER calculation for low symbol rate single tuner
- Improved stability (jitter) of AES67 output
- RIST receiver improved for low latency transmissions, avoiding sometimes quite aggressive retransmission requests
- RIST receiver improved for dual streams with encoder send delay
- Switching VLAN activation without modification doesn't work
- Control services are not correctly setup in VLAN environment
- Digital interface output level can be displayed greater than 0 dBFS when a gain value > 0 is configured and the audio level is high
- Fixed shown name of radio input source during Drag&Drop
- Drag&Drop of TS Data Demux input sources did not always work
- SAT tuner: if reception gets interrupted due to e. g. bad weather conditions, the device still could fail to re-establish TS decoding and the audio outputs stay silent
- Fixed Livewire routing protocol LWRP not working after changing the IP address of the device
- MPE decoder: MPE ancillary data output was not working
- Fixed possible timestamp display problems in new Extended Log
- Decoder input sources with backup policy "Active when needed" might not get deactivated again when activating superior source
- MPEG TS Decoder: optional decoding of 192kHz PCM in PES mode without external clock did not work
- Ancillary data output for SRT input sources may not work when having configured "Audio Output X" as input source for the Ancillary Output
- Changes to the headphone config via web interface were not applied
- The new "Auto Refresh" of the event and extended log web page sometimes didn't work
- Livewire stream names with more than 15 characters could crash the system if the Livewire Routing Protocol LWRP is active
- SNMP get for virtual IP address nodes did always return 0.0.0.0 (e. g. virtCsllpcfgtempCtrlIp, OID 1.3.6.1.4.1.21529.1001.35.2.42.43.1)
- RIST receiver improved for RTP streams, where the encoder has RIST disabled (could lead to audio buffer not building up)
- RIST didn't work in dual streaming setup for the redundant line
- RTP: Overall packet lost counter could be too large in rare cases
- Fixed compatibility issues when MM01 is the audio encoder and RTP packet fragmentation is activated via "RTP max payload"
- MPEG/TS decoder: enabled the possibility to decode audio streams not announced via PAT/PMT automatically without the need to set the codec type manually
- MPEG TS decoder: fixed compatibility of private data TS decoding if the PID is not announced via PAT/PMT
- MPEG/TS decoder: enhanced audio decoding compatibility of RTP streams inside MPE
- Changing just the LNB config for a SAT input source was not applied



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- Optional Live Listening feature did not work with Safari browser
- A configured source IP for SSM (Source Specific Multicast) could not get deleted
- When switching between different web interface menu items the page will now always scroll back to top
- DTE baudrate changes were not applied immediately, but only after a reboot - Fixed

Known bugs

- xHE-AAC: Ancillary data and GPIO Forwarding does not work



IP-4d Release Notes

Version 1.01

31.01.2023

New Functionality

- Added gain configuration to all input sources to e. g. allow alignment of main and backup sources
- Added playlist support (m3u, m3u8, pls) to the file input source
- Added VLAN support to the Icecast client input source
- Added previously missing RF level value for the optional SAT tuner
- Added SAT tuner alarms for RF level, C/N and TS Sync
- Added Mono Downmix option for the audio outputs
- Major Livewire integration enhancements:
 - Added optional Livewire Sources for the audio outputs (instead of AES67 streams), allowing to have a Livewire audio stream instead of physical XLR as audio output.
 - Added Livewire level meters for Sources and Destinations (enhance compatibility to e. g. Pathfinder)
 - Added two virtual Livewire GPI ports (GPI 3 and 4), which will reflect the state of GPO port 1 and 2. This will allow other Livewire devices to register for GPI changes via snake mode and thereby follow a GPO change on the SAT-4d (e. g. via GPIO Tunneling), reflected as a virtual GPI change. The virtual GPI ports will thereby provide a GPO pass-through to other Livewire devices.
- Added status tabs to Overview page for optional AES67 outputs and Livewire Sources
- Added PIN lock option for LCD menu
- Allow decoding of not announced TS audio services (with missing DVB tables)
The codec has to be set manually ("Automatic" will not work)
- Added VLAN interface status

Changed functionality

- Improved the file upload via the Storage page
The upload limit was increased to 100 MB and the error handling was improved.
- The "NTP Server Quality" parameter options are renamed from "Internet" and "Local" to "Logging" and "Clock Source" to better describe the usage and thereby the internal evaluation parameters used. With NTP expert settings enabled you can now also change the NTP quality settings "RMS Offset" and "Skew" (used as evaluation parameters).
NTP validation is now much faster on device startup or NTP activation.

Fixed Issues

- Fixed a possible crash with NTP synchronization and "Bind to interface" option enabled
- When loading a settings file, some input sources may not show up, although there were such input sources in the settings file (probably only TS/SAT and Radio)



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- SAT tuner: there was a LNB supply limitation of 200mA, which led to compatibility issues to some LNBs (not switching polarization). This limitation is removed by software, allowing for a current > 400mA
- SAT input sources: Fixed a possible larger offset of the audio buffer level with certain streams
- Fixed an issue with syslog messages stop working after a reboot
- Fixed a possible crash on the Overview page, when RTP with dual streaming, VLAN and multicast is enabled
- Fix input source assignment check for SAT input sources (did not allow some valid combinations)
- Fix xHE-AAC problems with low bitrates
- Icecast input source handling improved for faulty meta data from some Icecast servers
- Improved Icecast client compatibility to “bursty” Icecast streams similar to HLS
- IGMP binding improved for RTP multicast (in case of interfaces with identical addresses)
- Livewire: increased general compatibility with Pathfinder
- Livewire: changes done to Livewire Destinations via LWRP were not applied
- AES67 output compatible with DHD (silent mode)
- AES67 outputs loose the PTP synchronization after reconfiguration the AES67 output parameters
- AES67 output: improve stability of empty packets mode
- Fixed an issue with the ancillary output not working and providing no data when a TS ancillary data or a private data input source is configured and only assigned to one of the ancillary outputs without using the same TS source in one of the decoders (or maybe encoders)
- TS/Demux: In “Service (auto)” mode the PID shown in the input source table was the PMT PID and not the audio PID
- TS/Demux: Fix decoding startup problems with “Service (auto)” mode
- TS/Demux config: Fix empty audio track select on config mode change from “Service (auto)” to “Service (fixed)”
- SAP: fixed crash with too many announced streams

Known bugs

- xHE-AAC: Ancillary data and GPIO Forwarding does not work