

1. Firmware Revision History

Firmware 3.0.6 (MAR/26/2025) m1610_3.0.6_v176_20250327_r1.swu

- Avnu™ MILAN® Certified
- Feature: Allow manual selection of anti-aliasing filter
- Feature: (MIDI) Improved response to parameter change request messages
- Feature: Faster change of sampling rate
- Fix: Warnings were shown for inactive routings at high sampling rates
- Feature: (Redundancy) Reflect synchronization to secondary AVB stream in Clock state
- Fix: 0 dBFS signals immediately following a clipped signal would continue to indicate OVR
- Feature: Improved user guidance after change of sampling rate while streaming
- Feature: Faster preset name changes
- Feature (WebUI/GUI): Better visualization of peak levels when peak levels are activated
- Feature (WebUI): Improved appearance of truncated labels
- Feature (WebUI): Change device name using the web interface
- Feature (WebUI): Show miniature level meters while in routing mode
- Fix (WebUI): Firmware update will proceed even if browser connection is lost
- Fix (WebUI): Prevent context menus while dragging or when right-clicking
- Feature (GUI): Network configuration (IP address) can be performed at the device
- Feature (GUI): New Identify Screen
- Fix: Switch off ethernet port LEDs on startup



Changing sampling rates will change the sampling rate of the device but keep existing AVB streams running with wrong stream format and audio payload due to MILAN requirements. It is highly recommended to use an ATDECC controller (Milan Manager® or Hive) to manage routing and sampling rate changes in MILAN environments.

Firmware 2.5.1 (NOV/01/2023) m1610_2.5.1_v171_20231101.swu

- fixed: ATDECC: Closing a controller stopped notifications to other controllers on the network
- fixed: AVB Redundancy: Destination MAC address was not set correctly while other port active
- fixed: Update from firmware 1.2.4 or earlier to firmware 2.5.0 failed

Firmware 2.5.0 (JUL/12/2023) m1610_2.5.1_v171_20231101.swu

- feature: Faster remote control and snappier web remote interface
- feature: Faster boot time
- feature: AVB: Entity model has been updated (for example: to reflect controls on jacks)
- fixed: Redundant network connections did not work

- further improvements under the hood addressing MILAN compatibility and minor bug fixes

Firmware 2.4.2 (APR/18/2023)

- fixed: Some 100 MBit/s devices did not connect properly

Firmware 2.4.0 (JAN/20/2023)

- feature: A static IP address can be assigned on the device
- feature: Temperature and fan speed controls are shown on the device
- feature: A dedicated CRF Stream has been added for MILAN conform AVB clocking
- feature: New stream configuration dialog (web ui)
- fixed: Sync issue when receiving signal from RME MADI Router
- improved: Error handling in JSON(SSC) API
- improved: ATDECC Counters and Notifications
- improved: MILAN compliance
- additional minor fixes and improvements

Firmware 2.3.1 (APR/26/2022)

- fixed: MADI output menus could not be accessed on the device screen

Firmware 2.3.0 (MAR/22/2022)

- fixed: MILAN counters
- fixed: under specific circumstances, the previous 2.2.0 firmware could cause presets to get corrupted
- improved: MILAN compatibility
- improved: MIDI over MADI remote control

Firmware 2.2.0 (AUG/22/2021)

- feature: IEC 60268-18 scaling for levelmeters
- feature: display of muted output channels
- feature: show grandmaster of both PRI and SEC networks
- fixed: AVB redundancy failed when a primary stream was clock reference and interrupted
- fixed (webUI): presentation time offsets were not correctly displayed after change
- fixed: routings at single speed had an effect on soundness at double/quad speed
- improved: AVB redundancy
- improved: display of preset names in webUI and on the device display
- improved: CRF Stream support
- improved: MILAN compatibility

Firmware 2.1.1 (DEC/07/2020)

- feature (web): peak indicators in level meters

- feature (web): support consecutive channel naming with TAB key
- several additional fixes and improvements for the web remote



Existing presets will be updated to the new firmware and cannot be used with previous firmware versions. Please back up your existing presets in case there is a need to revert to an earlier firmware.

Firmware 2.1.0 (NOV/04/2020)

- feature: show IP address of secondary network port
- feature: upload and download presets
- feature: possibility to rename presets
- feature: automatic update checks
- feature: AVB: media locked counter for input streams
- feature: web: direct link to online manual
- improved: web: font rendering
- improved: web: error handling (WebGL)
- fix: web: memory usage in routing mode
- fix: web: several graphics issues
- and additional minor fixes and improvements

Firmware 2.0.0

- Initial release


2. Firmware Update

New and improved features for this device, as well as bug fixes, are published on the RME website in the download section as a firmware update. The update is provided as a compressed file with a **.swu** extension and can be uploaded via web remote over USB or network.

To update the M-1610 Pro:

1. Connect the device by USB or network cable and open the Web Remote.

See: [Section 2.1, “Finding the Device on a Network”](#)

2. Download the current firmware from the RME website.
3. Unpack the compressed file.
4. Open the  **Settings** in the Web Remote.
5. Within the **Firmware Update** section, press the **[Select .swu Firmware File]** button and locate the unpacked file.
6. Press **[Start Firmware Update]**.



The unit retains all settings, including presets, when the firmware is upgraded.

2.1. Finding the Device on a Network

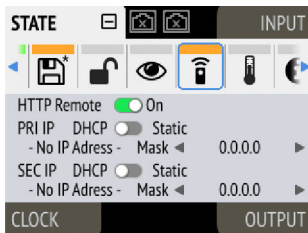
The M-1610 Pro has three integrated network adapters (USB 2.0 and dual ethernet).

The adapters can be used, individually or simultaneously, to control the device with HTTP ("web remote"). The web remote control works on any IP-based network, including wireless networks.

The ethernet connection additionally supports ATDECC 1722.1 remote protocol, which requires a physical connection (cables), but does not require AVB switches. Wireless routers are not supported for ATDECC.

To enable web remote functionality over HTTP:

1. Open the **remote** tab in the **STATE** section.



2. Ensure that the **HTTP Remote** setting is switched to  **ON**.

2.1.1. USB

When the device is connected with a USB 2.0 cable to a Apple macOS™ or Microsoft Windows™ computer, a network device is automatically installed in the background that assigns the M-1610 Pro the following IP address:

<http://172.20.0.1>



Only **one** of the following products can be connected to the host computer via USB at a time: RME M-32 AD Pro (II, II-D), M-32 DA Pro (II, II-D), 12Mic, 12Mic-D, AVB Tool, M-1610 Pro, M-1620 Pro.

2.1.2. Ethernet

The integrated ethernet adapter will join an IP network when connected. If no DHCP server is found, for example when connecting the M-1610 Pro directly to a computer, an address is automatically self-assigned (in the 169.254.0.0/16 subnet).

2.1.3. Connecting to the Remote Interface without IP address

To find out the current IP address:

Instead of using the IP address, the **device name** can be entered in the browser window, followed by **.local/**.

The current device name is shown on the standby screen between the 'Clock' and 'Output' sections. It may be abbreviated if it does not fit in the corresponding space.

By default, the name is m1610-pro, and the corresponding URL is therefore:

<http://m1610-pro.local/>



The length of the custom name should not exceed 63 characters. Spaces, underscores and other special characters in the device name should be written as hyphens ("-") when entering the URL.



on some operating systems or browsers, a trailing dot "." may be required after the 'local' domain: <http://m1610-pro.local/>



The device name is stored in a preset. Loading a preset can therefore change the device name and require a different address.