

About the firmware version 2.20 update

Last Modified: June 2nd, 2015

Summary

This release of the hPDU firmware adds **bridge mode for web interface** and adds **Modbus/TCP**. It also fixes some issues, and is advised for all users of the hybrid range of PDUs.

Important warning!

If running a version lower than 2.06, make sure you update to 2.06 before updating to 2.20. The hPDU firmware might get locked at version 2.02 if you don't update to 2.06 first! The supplied firmware updater tools will prevent this. Important note: when upgrading from a version lower than 2.10, this update adds the 'static fallback' feature to DHCP which is enabled by default. If you don't have a DHCP server running in your environment, all your updated hPDUs will fall back to default IP address 192.168.1.220 after 60 seconds (counting from reboot or Ethernet cable plug-in). Setting a different network configuration (e.g. disabling DHCP or static fallback) is possible through the new web interface.

What's included in 2.20 (changes since 2.10)?

- Added ability to view and manage other data bus units through the web interface, when the hPDU is set to 'bridge mode'
- Added new Modbus/TCP interface which can be used to read and write data of the hPDU, and bridged units when hPDU is set to 'bridge mode'
- Added VA and W power values on 'Inputs' page in web interface
- Time-out of IP API TCP socket increased from 10 to 30 seconds
- Firmware upgrade packets prioritized resulting in more reliable firmware upgrade process over IP API
- Improved overall speed and stability of all IP features
- Improved slave module communication (for units with metered or switched outlets)
- Both data bus connectors are used for bridging instead of only middle one
- State of dry-switch input is shown on 'load' page of the LCD display
- Fixed issue causing the firmware to reset in some data bus setups
- Fixed issue causing the firmware to reset when sending invalid commands to the IP API

Known issues

- When in bridge mode, SNMP will act the same as in 'hybrid' mode, so will only provide access to the hPDU unit's own data. The bridge capabilities of SNMP are still in development.
- When viewing bridged units in the web interface, some features might not work as expected, if the remote unit's SPDM version is below 1.28.
- SNMP walk will always return at least one metered and one switched outlet, even if the unit does not have such outlets.
- Changing the unit address of a remote unit will not automatically cause a rescan. This needs to be done manually.
- Do not make a closed ring when using bridge mode, as this will cause communication issues. The hPDU does not support 'ring redundancy' at this stage, although it can reach units from both of its data bus connectors.

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- Do not combine multiple hPDU bridges or a hPDU bridge and gateway in the same data bus.

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Installing this firmware

Versions 2.02 and 2.06 can only receive firmware updates over the classic data bus (by using a Gateway or RS485 converter together with the supplied updater tools). From version 2.10, the hPDU can receive firmware updates over the IP API as well.

Use the supplied firmware updater tool by following the instructions in the *Firmware updater tool manual*. Note: uploading 2.xx bin files in the Gateway's web interface is not possible!

Note: the outlets will not be powered down during update or rebooting of the PDUs!