

PICOLO.net LLD2 – PC1682

Firmware 1.1 Release Notes



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Firmware Release 1.1

New Features

Link-Local Addresses

Since release 1.1 of the LLD2 firmware, the device will use link-local address (in the pool 169.254.0.0/16) if no DHCP offer is received within 120 seconds after boot. Address assignment follows IPv4LL "*Dynamic Configuration of IPv4 Link-Local Address*" described in IETF RFC3927.

Link-local mode of firmware 1.1 replaces failsafe mode of firmware 1.0.

Boot to Selection Screen

Since release 1.1 of the LLD2 firmware, the set of video sources selected for display is specific to the network the device is plugged to. When the device detects that it is running on an unknown network, it will boot to "Configuration" screen. If the device recognizes the network, it will boot to "Viewing" mode, using the last video sources configured for that network.

How to Install the Upgrade

1. Properly power-down your LLD2 device and copy the .stz package at the root of a USB storage device formatted in FAT32 mode. Make sure the file still starts with the "picolo_upgrade*" pattern;
2. Insert the USB key in a free slot of your LLD2 device and power it up. Make sure the device remains powered during the whole upgrade process (at most 5 minutes);
3. The screen will stay black after the "system booting" message and will report "USB device detected by S-U 1.x" and later "unpacking /tmp/upgrade/picolo_upgrade_1_1.tgz"
4. There is no interaction required during the upgrade process. Once the process is over, a message is shown on screen prompting the operator to "Remove USB device to terminate the process". The LLD2 has already disengaged your USB storage device at this time, which can be safely unplugged.
5. Unplugging the USB storage device is detected by the LLD2 which reboots to the updated firmware.