

4. PGD is white, PGC is brown.
5. Power supply and VPP (3.3V = Orange, GND = Blue, VPP/MCLR = Yellow) can also be soldered to the appropriate pads if needed.

Network connection

For a PC direct connection a crossover cable must be used. If router, switch or hub is used just use a normal patch cable.

Other connections

Further [connections](#) are optional and can be used for connecting peripheral devices.

Powering on

Bootloader

Right after switching on power the [bootloader](#) is active in Netzer. The bootloader signals activity on the fast blinking network LED. Left or right LED depends on the bootloader version.

After a few seconds the firmware is activated if any installed. If none is installed the bootloader stays active. In that case the Netzer stays connectable at the fix IP address **192.168.97.60**.



Netzer supports only ARP and TFTP in Bootloader mode, no ICMP. Hence, Netzer can **not** be pinged at 192.168.97.60.

IO Firmware

This firmware is commonly installed on our Netzers you can buy in our webshop. It is started by the bootloader automatically after a few seconds.

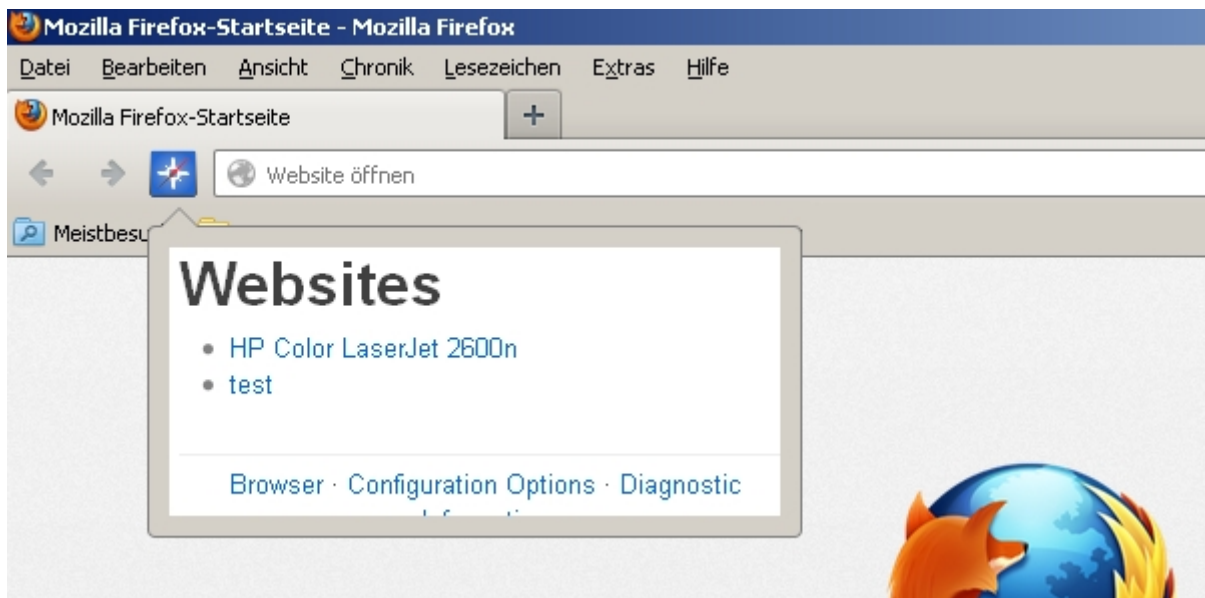
IP address

MoBaCons Netzer firmware (i.e. IO) has no IP address per default. It tries to obtain an IP address from DHCP server. If no server is found it uses a so-called auto IP in the area **169.254.X.X**.

MDNS

The exact IP address is not relevant for first connections. The simplest way is to connect to the network name (per MDNS). For that reason [bonjour](#) from Apple should be installed on the PC (can also be found for Linux or Windows).

Firefox



Comfortable Netzer discovery is possible with Firefox browsers and the installed [DNSSD-Plugin](#). This plugin maintains all found web pages of MDNS devices in a list. Netzer has a name like *nexxyzz.local*. *xyzz* are the last three numbers of its MAC address. The name can later be changed on the Netzer web sites.

Web access

The most of the functionality can be configured due to Netzers web access. The IOs can also be accessed (read and written) from here.

IO access

The IOs can be accessed due to different channels. Up to version 1.4 the common access method is via [gpioserver](#).

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