





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.

# Firmware

## 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*. xxyzz are the last three numbers of its MAC address. The name can later be changed on the Netzer web sites.

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