

The Netzer Project

This project realizes an Ethernet interface on a PIC-based platform.



As a gateway module it enables communication between standard TCP/IP sockets and serial busses like I2C, SPI and UART. Also up to 13 GPIO pins can be accessed (written to or read from).

Here is an overview of features:

- Ethernet device with tiny TCP/IP stack
- Based on a low-cost 8-bit PIC microcontroller (PIC18F67J60) from Microchip
- Bootloader integrated for easy firmware updates with TFTP
- Integrated webserver for configuration with dynamic websites
- User based webserver authorization
- Multicast DNS functionality for easy device and service discovery with Bonjour
- Power-over-Ethernet: Prepared for power supply via the ethernet connection (PoE - 802.3af)
- Extensive settings via the webinterface
- Unlimited parallel usage of modules
- Usage of 2.54 mm pinheaders enables simple integration in custom circuits
- Interfacing SPI, I2C and UART
- Included ADC for sensing and PWM for control

Navigation <menu col=2,align=center>

Recently changed pages

```

<item>News|Announcements|[[[:en:netzer:news]]]:news.png</item>
<item>Roadmap|Where the Netzer goes to|[[[:en:netzer:roadmap]]]:roadmap.png</item>
<item>User|Manual|[[[:en:netzer:user]]]:user_red.png</item>
<item>Developers|Further detailed project informations|[[[:en:netzer:developers]]]:developer.png</item>
<item>Hardware|Infos and downloads|[[[:en:netzer:hardware]]]:hardware.png</item>
<item>FAQ|Frequently asked

```

```
questions and
answers|[[[:en:netzer:faq]]]:faq.png</item>
<item>Discussion|Discussion
about problems and
extensions|[[[:en:netzer:discu
ssion]]]:discussion.png</item
>
<item>Links|Useful links for
this project
)|[[[:en:netzer:links]]]:link
s.png</item>
<item>Gallery|Nice pictures
)|[[[:en:netzer:gallery]]]:ga
llery.png</item>
```

</menu>

From:
<http://mobacon.de/dokuwiki/> - **MoBaCon**

Permanent link:
<http://mobacon.de/dokuwiki/doku.php?id=en:netzer:index&rev=1324466826>

Last update: **2025/06/11 20:42**

