

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
- Two ADC channel for sensing
- Two PWM and Impulse channel for control

Navigation <menu col=2,align=center>

Recently changed pages

```

<item>News|Announcements|[[news]]|:news.png</item>
<item>Getting started|What to do first?|[[start]]|:getting_started.png</item>
<item>Roadmap|Where the Netzer goes to|[[roadmap]]|:roadmap.png</item>
<item>User|Manual|[[user]]|:user_red.png</item>
<item>Developers|Further detailed project informations|[[developers]]|:developer.png</item>
<item>Hardware|Infos and downloads|[[hardware]]|:hardw

```

```
are.png</item>  
<item>FAQ|Frequently asked  
questions and  
answers|[[faq]]|:faq.png</item  
>  
<item>Discussion|Discussion  
about problems and  
extensions|[[discussion]]|:di  
scussion.png</item>  
<item>Links|Useful links for  
this project  
)|[[links]]|:links.png</item  
>  
<item>Gallery|Nice pictures  
)|[[gallery]]|:gallery.png</  
item>
```

</menu>

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

Permanent link:
<http://mobacon.de/dokuwiki/doku.php?id=en:netzer:index&rev=1749667332>

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

