

# The Netzer Project

This project realizes a 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 a feature overview:

- 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>

<item>News | Announcements | [[:en:netzer:news]] | :news.png</item>

<item>Roadmap | Where the Netzer goes to | [[:en:netzer:roadmap]] | :roadmap.png</item>

<item>User | Downloads and Manual | [[:en:netzer:user]] | :user\_red.png</item>

<item>Developers | Further

## Recently changed pages

detailed project  
informations|[[[:en:netzer:dev  
elopers]]|:developer.png</ite  
m>

<item>Hardware|Infos and  
downloads|[[[:en:netzer:hardwa  
re]]|:hardware.png</item>

<item>FAQ|Frequently asked  
questions and  
answers|[[[:en:netzer:faq]]|:fa  
q.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=1321273398>

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

