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>

```
<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
```

Recently changed pages

```
questions and
ansers|[[: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>