

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 | Manual | [[:en:netzer:user]] | :user_red.png</item>
```

```
<item>Developers | Further detailed project
```

Recently changed pages

```
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>

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