

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



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Getting started

What to do first?



Roadmap

Where the Netzer goes to



User

Manual



Developers

Further detailed project informations



Hardware

Infos and downloads



FAQ

Frequently asked questions and answers



Discussion

Discussion about problems and extensions



Links

Useful links for this project :)



Gallery

Nice pictures :)

Recently changed pages

Download Area	2015/01/08 07:04	[Tools] Added ldmicro.
Roadmap	2015/01/08 06:57	Extended roadmap Removed pro version,
The IO project	2015/01/08 06:52	instead listing all IO features together
News from the Netzer (netwerker or networker if you like :) world	2015/01/06 16:42	Added release 1.6
navigation	2015/01/06 16:20	Added downloads to nav bar
Service packages and licenses	2015/01/06 16:19	Base is not longer maintained.

Manual	2015/01/06 16:09	[Firmware projects] Updated to 1.6
The I2C master protocol	2015/01/06 08:38	[Repeated start]
Distributors	2015/01/05 14:02	

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