The IO project

Common features

- Configure all features via web interface
- Select the language of the web interface dynamically
- Different IP access modes (DHCP, AutoIP etc.), look at network settings
- Multilingual (German, English, Spanish and Netherlands) webserver for diverse settings.
- Multicast DNS functionality for easy and quick access via the network
- The serial server (net socket) with interfaces UART, SPI Master, I2C Master and I2C monitor
- UART interface has new features like parity and handshake signals
- All pins can be accessed via a new SPI-Master protocol. This new feature can also be ussed to adress more than one slave.
- Configuring, writing and reading Netzer GPIOs via web interface
- Automatic refresh of the GPIO page within configurable time
- Support of advanced IO peripherals like ADC, PWM, impulse generator, impulse capture und edge counters (look at Netzer GPIO)
- Writing and reading Netzer GPIOs via GPIO server
- Extending the serial server with TCP Client functionality and DNS resolver

The factory settings

- All Netzer GPIOs are configured as digital inputs.
- The GPIO server is listening at port 65000.
- Authentification at GPIO server is enabled
- Automatic reloading of the GPIO web page is disabled
- The serial server is configured for port 64000.
- The serial mode is deactivated.
- UART is configured for 19200 Baud, no parity, no handshake.
- SPI is configured for 10,4 MHz, mode 0, sample at the middle.
- I2C is configured for 100 kHz

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