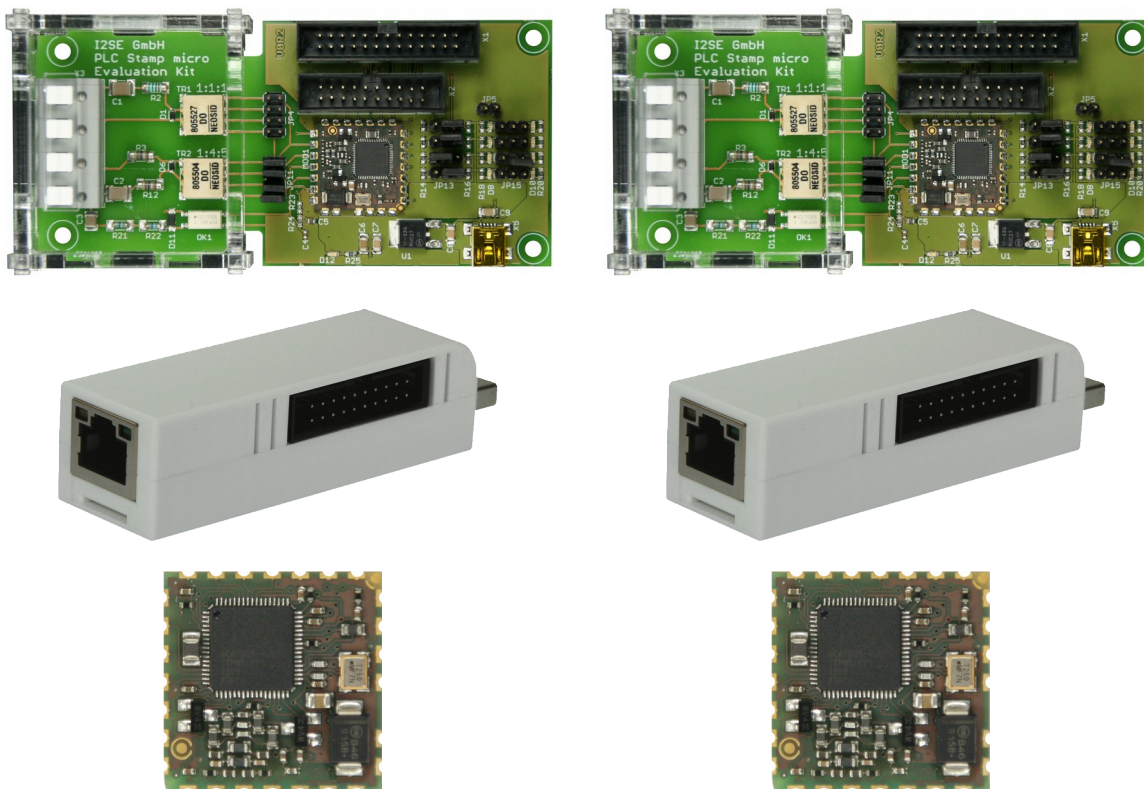


PLC bundle for Internet of things

Bundle content

- 2 PLC Stamp micro Evaluation Kits (EVK)
- 2 Duckbill SPI with cables for EVK and Ethernet
- Duckbill SPI Linux operating system on eMMC
- 2 PLC Stamp micro
- 4 USB cables for power supply
- 2 cables for mains connection with euro style plugs



Abstract

The PLC bundle for Internet of things is a complete set of boards for evaluation and development of Homeplug Green PHY based hardware and software. The hardware for this bundle is built around the QCA7000 Green PHY which is embedded on the 4 PLC Stamp micro. Two of them are soldered on each PLC Stamp micro EVK. The other two can be used in your own circuit. The bundle is useful for development of building automation components as well as electric vehicle charging electronics. Powerline coupling components for both purposes are included on the PLC Stamp micro EVK. The Evaluation Kits are suitable for direct connection to mains/powerline. The Duckbill USB Linux computers come with the SPI interface to connect the PLC Stamp micro EVK.

PLC Stamp micro EVK

| | |
|---------------------|--|
| Powerline interface | 230 V AC, 110 V AC, DC, dead-wire 2-wire-connections |
| PLC transformer 1 | 1:4:5 for mains power line coupling |
| PLC transformer 2 | 1:1:1 for Electric Vehicle and Electric Vehicle Supply Equipment |
| Serial interface | SPI |
| Power supply | 5 V via USB |

Duckbill SPI

| | |
|-------------------|-----------------------------|
| Serial interface | SPI |
| Network interface | 10/100 MBit/s Ethernet |
| Power supply | 5 V via USB |
| Microcontroller | i.MX283 (ARM9 with 454 MHz) |
| Storage | eMMC |
| Operating System | Linux kernel 3.10 |

