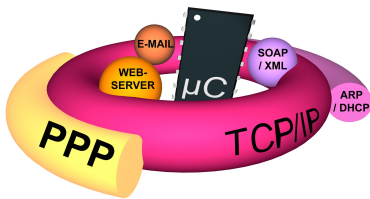


sevenstax PPP 3.0

The sevenstax PPP stack is used in units with serial data transfer i.e. via analogue modem, GSM, GPRS, RS232, ISDN or DECT. sevenstax PPP was designed for running on units which are in use as clients on a network e.g. Web-Browsers or units which pull or send data autonomously. In short, when unit cost is of direct influence and a high level of system security is required, that is when the advantages of sevenstax PPP are most evident.

With sevenstax PPP the TCP traffic is enveloped to manage Internet communication using Internet Service Providers (ISPs). It supports several compressions to increase bandwidth and speed up data transmission. With its small memory footprint sevenstax PPP is a good choice on platforms with low resources.



Advantages:

- outstanding performance on small platforms with **less RAM/ROM**
- send and receive buffers can be used for data processing by the upper protocol layers
- fast integration and short development time required
- the stack has minimal interface requirements and can easily be integrated into existing software

Characteristics:

- **small memory footprint**
- for micro controllers from 8...32 bit
- integrated sub-protocols LCP, PAP, CHAP and IPCP
- authenticity check by PAP/CHAP
- "On the fly" HDLC en-/decoding
- asynchronous performance without multithreading OS
- portability - ANSI C

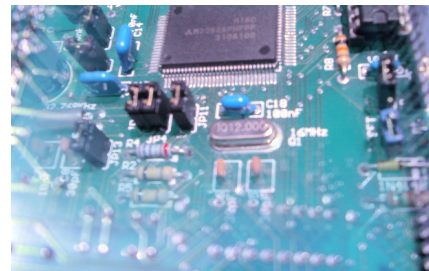
Specials:

- authentication using CHAP
- supports ACCM (Asynchronous Control Character Map)
- header compression
- protocol compression
- IP-compression (Van Jacobson Compressed TCP/IP)
- automatic connection check (AutoPing)
- PPP identification message

Memory & System Requirements:

- ROM: approx. **6,5 KBytes** (without CHAP)
- RAM: approx. **250 Bytes** variables
640 Bytes send buffer (ADJ)
640 Bytes rec. buffer (ADJ)
- CPU: Load less than 5 %
(16-bit CPU, 10 MHz,
14400 bd modem connect)

32-Bit Timer/Counter (Software) with a resolution of 1 ms



What you get:

- well documented source code
- detailed API-documentation
- sample-code

sevenstax GmbH is specialized in developing systems with high requirements regarding operating security but reasonable hardware costs. The integration of communication technology, especially the Internet, with all kind of systems is our key know how. Our software is adaptable to customer's systems and requirements – as result you will get a tested and well operating adaptation.

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