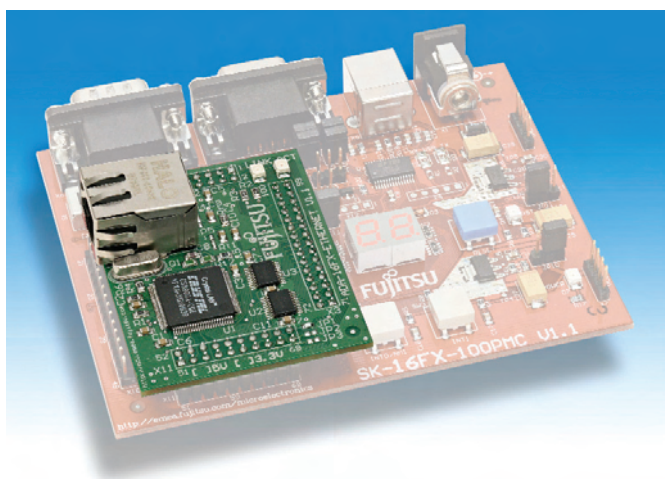


FACTSHEET
ADA-16FX-ETHERNET ADAPTER BOARD
FOR 16FX STARTERKIT

16FX ETHERNET EXTENSION Ethernet functionality for Fujitsu 16FX Microcontrollers



ADA-16FX-ETHERNET: adapter board for 16FX Starterkit.

Description

ADA-16FX-ETHERNET is an extension to the 16FX starterkit SK-16FX-EUROSCOPE. It contains the external Ethernet controller CS8900. This device is connected to the microcontroller by means of the external bus interface. Together with the available TCP/IP stack and example software it adds Ethernet functionality to 16FX. The software package contains higher application layers to run a web server on the MCU (access to the MCU from a web browser), send and receive e-mails, transfer data via the TFTP protocol or access the Microcontroller through Telnet.

Kit content

- Adapter board ADA-16FX-ETHERNET with Ethernet controller CS8900 and Jack
- Free-of-charge OpenTCP stack incl. various application layers
- Software examples, application notes, manuals

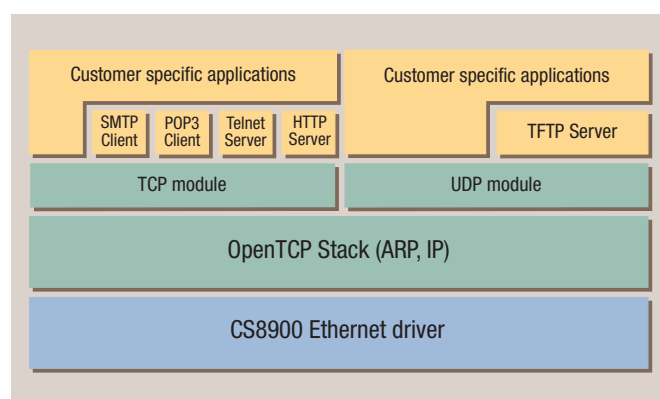
ADA-16FX-ETHERNET is designed for operation in conjunction with the microcontroller starterkit SK-16FX-EUROSCOPE*. The boards are connected through pin-headers.

* To be ordered separately.

Software

The provided open source TCP/IP stack 'OpenTCP' offers standard network sockets as interface to the application layer, allowing easy implementation of customer specific applications. Many higher level protocols are already implemented.

The low level driver has a modular structure and can be adapted effortlessly to other Ethernet Controllers than the available CS8900.



OpenTCP stack layers.

Features TCP/IP stack

- Low level driver for CS8900
- ARP, TCP/IP, UDP
- HTTP server - web server
- TFTP server - file transfer
- Telnet server - shell
- SMTP client - send e-mail
- POP3 client - receive e-mail

OpenTCP is designed for embedded applications and requires little resource in terms of memory usage.

As alternative to the full-featured OpenTCP stack, an implementation of the smaller μ IP Stack is also available.

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