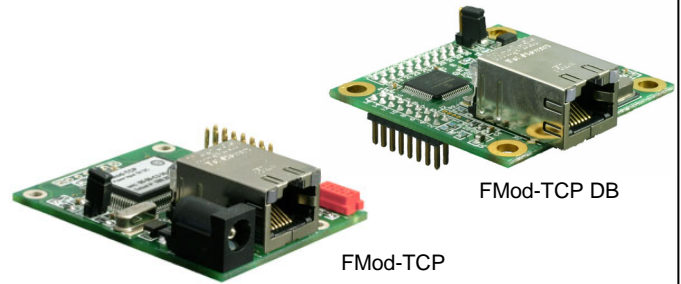# FMod-TCP
Datasheet

This device is a TCP/IP server board which allows manufacturers and system integrators to connect different devices, such as home appliances, industrial sensors and industrial control systems, directly to the Ethernet network, and to remotely monitor and control those while using standard TCP/IP protocols.

A web page can be downloaded to this device, allowing users to be OS independent.
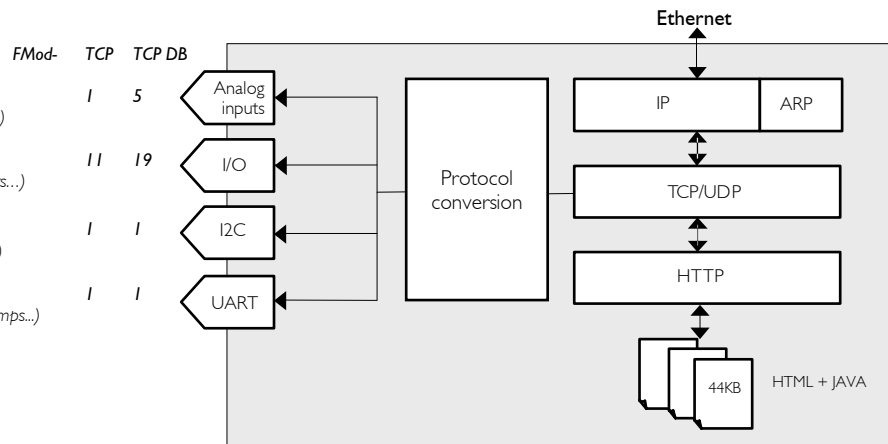
FMod-TCP DB

FMod-TCP

Features

FMod-	TCP	TCP DB
Analog **inputs** (0-5V, 10bits A/D) *(Can be used for thermocouples, voltage monitoring...)*	1	5
0-5V Digital **I/O** *(Can be used with 220V AC static relays, optocouplers...)*	11	19
2 wires **I2C** serial bus (SDA+SCL) *(Allows access to various sensors, flash memory, IC's...)*	1	1
UART serial port (with hardware flow control) *(Allows interfacing compatible devices like scopes, pumps...)*	1	1

Available protocols

Ethernet:	Based on standard 10BaseT NIC controller.
Internet layer:	IP & ARP.
Transport layer:	TCP + UDP & ICMP (ping) (up to 4 simultaneous users in TCP).
Application layer:	HTTP + JAVA dedicated to simple pages and files saved in flash (44kB).
	Access to UART, I2C, I/O, A/D and to configuration registers.

Software

A TCP/IP stack is embedded on the device. It can be accessed from any standard Web browser or dedicated application.

A PC interface (for Windows OS) and a sample Java Applet are also included.

Connectors and electrical specifications

- RJ45 connector for Ethernet.
- On FMod-TCP DB: Two standard DIL connectors for I/O, A/D, UART and I2C bus.
- On FMod-TCP: Two 6 pins "Micromatch" for I2C and UART buses and a DIL connectors for I/O and A/D.

The power supply is protected against negative and over voltage.

The typical power consumption is 50mA.

Software

A TCP/IP stack is embedded on the device. It can be accessed from any standard Web browser or dedicated application.

A PC interface (for Windows OS) and a sample Java Applet are also included.

Dimensions

(LxBxH): 55x43x15 mm (FMod-TCP) / 55x51x23 mm (FMod-TCP DB)

Where to find more information

Please download the user's manual from the following address: http://www.fiveco.ch/section_motion/support_motion_E.htm