

# FMod-TCP DB

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.



## Features

**Analog inputs** (0-5V, 10bits A/D)  
(Can be used for thermocouples, voltage monitoring...)

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**0-5V Digital I/O**  
(Can be used with 220V AC static relays, optocouplers...)

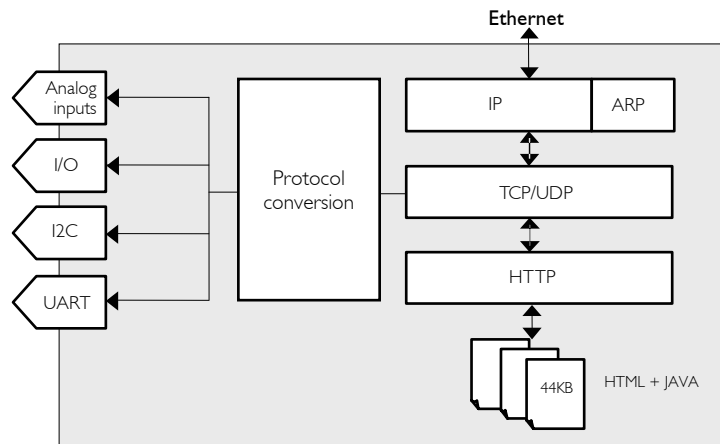
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**2 wires I2C** serial bus (SDA+SCL)  
(Allows access to various sensors, flash memory, IC's...)

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**UART** serial port (with hardware flow control)  
(Allows interfacing compatible devices like scopes, pumps...)

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.

## Support

Many support tools are provided (free of charge and redistributable):

- PC interface (for Windows OS)
- Sample Java Applet source code
- C++ source code and drivers (C compliant DLL)
- Wireshark plugin (Ethernet frame capture application)

Those tools allow customers to easily develop their own application or java applet to control their equipments.

## Connectors and electrical specifications

- RJ45 connector for Ethernet.
- Two standard DIL connectors for I/O, A/D, UART and I2C bus.

The power supply is protected against negative and over voltage.

The typical power consumption is 50mA. The supply voltage is 5V ± 5%.

## Dimensions

55x51x23 mm (LxBxH)

## 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](http://www.fiveco.ch/section_motion/support_motion_E.htm)