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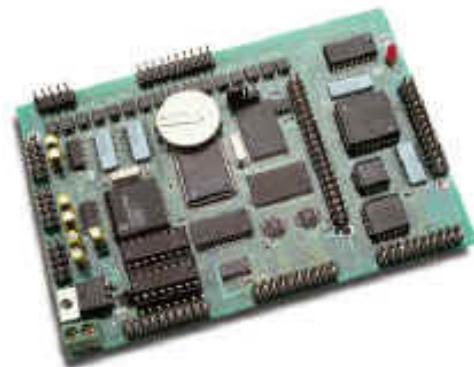
Dedicated Process



This is [Tern's TD86 Embedded controller](#).

It is based on the 186 processor. Including the TD keyboard known as a TD Pack

They carry a diverse range of [controllers](#).



This is a view of it with the TD Pack removed.

The TD86's technical information is [here](#), or the [manual here](#)



TD86 Specs:

- * Measures 4.8x3.4x0.5 inches
- * 16-bit CPU (186), x86 compatible
- * 40 MHz system clock
- * Power consumption: 190/130 mA at 5V
- * Power saving mode: 30/25 mA at 5V
- * Power input: +8.5 to +12V linear regulator,
- * +8.5 to +35V switching regulator
- * Temperature: -40 to +85 Celsius
- * **16-bit** external data bus
- * Up-to 256 KW (512 KB) Flash, 256 KW SRAM onboard.
- * 16 ch. 300 KHz 12-bit ADC, 0-5V input
- * 4 ch. 200 KHz 12-bit DAC, 0-2.5V out
- * Four serial ports, supporting RS-232/RS-485/RS-422.
- * Six 16-bit timers/counters
- * 16 opto-coupler inputs, including 5 external interrupts.
- * Real time clock, battery, switching regulator.

This was used to build a custom data bridge between Fuji PYX9 Temperature controllers and the Automation Direct PLC control and data acquisition system.

The TD86 communicates to the [Fuji PYX9](#)'s using Fuji's communication protocol. It pulls the Set Value, Process Value and Deviation Value and stores them in its memory. Then it communicates to the Automation Direct P.L.C. using the K-Sequence protocol and puts the values into the P.L.C.'s V memory.

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