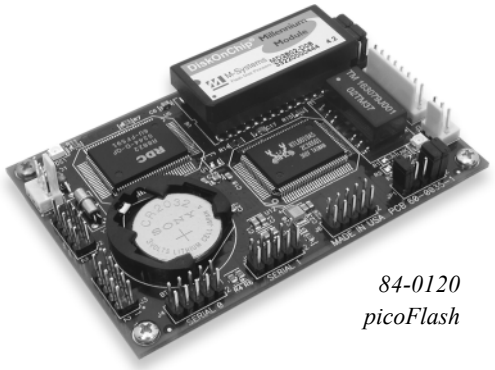
picoFlash

- ***TCP/IP & DOS with Flash File System***
- ***10BASE-T Ethernet / 512K Flash, 512K DRAM***
- ***40MHz 186 Compatible Processor***
- ***16 Digital I/O Lines***
- ***5V DC Power***
- ***Watchdog***
- ***(2) 16bit Timers***
- ***Console / Debug Port***
- ***Hardware Clock / Calendar***
- ***Dimensions 3.75" x 2.50"***
- ***Socket for DiskOnChip***
- ***2 Serial Ports***
  1 - RS232 (3-wire)
  1 - RS232 / RS232 TTL / RS485



84-0120
picoFlash

On a form factor slightly larger than a credit card, we've implemented a 40MHz x86 DOS computer. The system features ½ megabyte each of RAM and Flash memory, two serial ports, battery-backed clock calendar, 10Base-T Ethernet and a socket for optional M-Systems DiskOnChip products. Also included on the board are 16 bits of digital I/O, a watchdog timer, RS-485 and TTL serial port I/O, and LCD and keypad drivers.

The picoFlash controller comes with preloaded DOS and all the utilities you need to start development. Our low-cost development kit contains a full copy of Borland C/C++, the WatTCP TCP/IP stack, and source code for a number of TCP/IP clients and servers including HTTP, TFTP, FTP, Telnet and PPP.

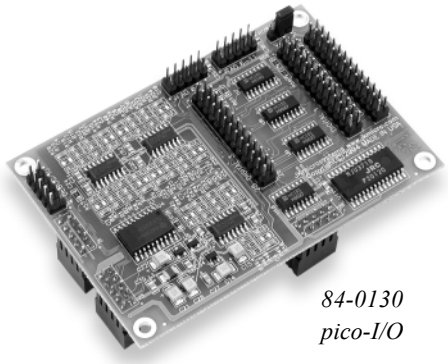
Free technical support is available, by email (support@jkmicro.com) or our web-based support forums (http://forums.jkmicro.com), to help you get your picoFlash application running quickly.

The ***picoFlash Development Kit*** (99-0120) includes a ***picoFlash*** controller, programming Cable, Connector Kit, Ethernet Cables, 110 VAC Adapter, Setup Guide, Schematic and CD with Borland C/C++ V4.52 Compiler, utilities, sample programs and documentation.

Included in the development kit is a character LCD driver, TCP/IP stack and web server (including source code), and PPP software that can be compiled with the Borland C/C++ package. A prototyping kit (99-0068) is also available for convenient development of hardware peripherals.

pico-I/O **Peripheral Board for picoFlash**

- ***Digital Inputs***
  32 total, 4 w/ pull ups
  TTL compatible
- ***Digital Outputs***
  20 total
  TTL compatible
  25mA source & sink
- ***Analog Inputs***
  11 channels, 12 bits
  Input range 0 to 5V
  Resolution 1.22mV
  Op-amp buffered
  Low-pass filtered
- ***Software Drivers***
  Unified A/D & digital I/O driver for C/C++ & Quick Basic
  Keypad & LCD drivers



84-0130
pico-I/O

The pico-I/O peripheral expansion board stacks on top of the picoFlash single board computer giving 32 digital inputs, 20 digital outputs, and 11 channels of 12 bit analog input without the need for extra cabling. A standard 9-pin ribbon cable can be used on the pico-I/O to provide access to the picoFlash Serial Debug Port. To facilitate your application development, a library of C and Quickbasic functions is supplied.

pico-I/O Peripheral Kit (99-0130) includes **pico-I/O** peripheral board, shells and pins kit, standoffs, & manual.

JK microsystems, Inc.

1403 5th St. Suite D, Davis, CA 95616 ***Phone (530)297-6073***
http://www.jkmicro.com ***Fax (530)297-6074***

picoFlash

Specifications

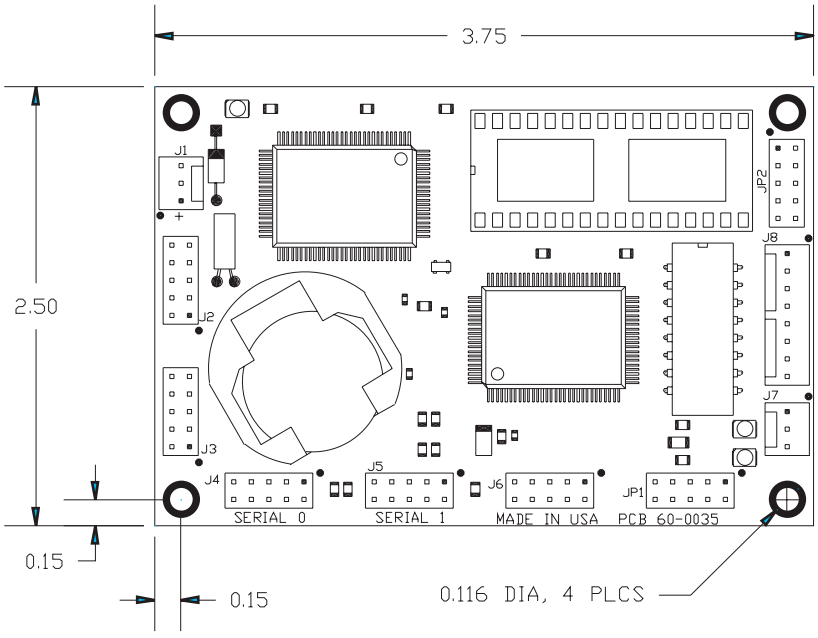
Processor	*40MHz 186 Compatible Processor*
Operating System	*XDOS (MS/PC DOS 3.3 compatible)*
RAM Memory	*512K Bytes DRAM*
Flash Memory	*512K Bytes Flash Memory*
Ethernet	*10BASE-T, NE2000 compatible Link and Activity LEDs*
Serial Port 0	*RS-232 with 3 handshaking or RS-232 TTL Level (Txd, TxD only) or RS-485 half duplex, 115200 baud maximum*
Serial Port 1	*RS-232 with no handshaking lines 115200 baud maximum*
Serial Debug Port	*9600 baud*
Digital I/O	*16 Digital I/O (3.3V TTL) 4 - 4 bit ports Port configurable as input or output*
Power Requirements	*5 Volts ±5% DC regulated 2 Watts (nominal)*
Humidity	*5 - 90 %, non-condensing*
Temperature	*-4 to 185°F (-20° to +85°C)*
Weight	*1.8 oz (51gm)*
Dimensions	*3.75" x 2.50" x 0.65" (95mm x 63.5mm x 16.5mm)*

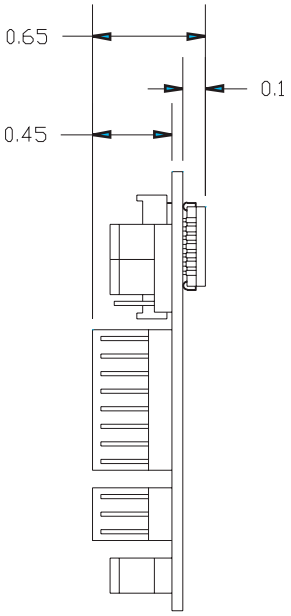
Connectors

J1	*Power (5V DC regulated)*
J2	*Digital I/O Ports A and B*
J3	*Digital I/O Ports C, Serial Debug, TTL Serial 0*
J4	*Serial Port 0*
J5	*Serial Port 1*
J6	*Digital I/O Ports D*
J7	*RS-485*
J8	*Ethernet*

Optional Features

- *Addition of M-Systems DiskOnChip Flash Disk*
- *Serial driver library*
- *Character LCD & Matrix keypad*





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