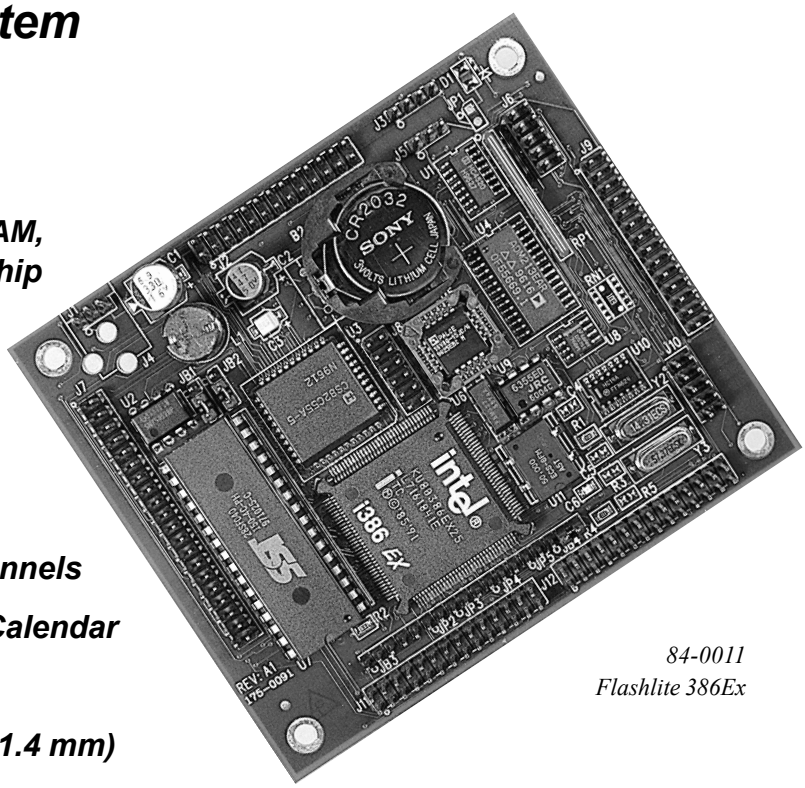
Flashlite 386Ex

With DOS & Flash File System

- ***25Mhz Intel 386Ex Processor***
- ***512K Flash / 512K SRAM***
- ***32 Pin Dip Socket to accept 512K SRAM, 512K Flash, or M-Systems DiskOnChip***
- ***2 Enhanced DMA Channels***
- ***34 Digital I/O lines***
- ***PC Compatible Serial Ports***
  1 - RS232
  1 - RS232 / RS485, Software Selectable
- ***3 PC Compatible Counter/Timer Channels***
- ***Watchdog Timer & Hardware Clock/Calendar***
- ***High-Efficiency Voltage Regulator***
- ***Dimensions 4.2" x 3.6" (106.7mm x 91.4 mm)***



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Flashlite 386Ex

The ***Flashlite* 386*Ex*** is a single board computer based on the Intel **386*Ex*** processor chip. The **386*Ex*** is a high-performance, 32-bit, single-chip microcomputer that is capable of protected-mode operation and includes an extensive array of integrated peripherals.

The ***Flashlite* 386*Ex***, like all members of the ***JK microsystems*** family of controllers, comes pre-loaded with DOS and utilities so that you can begin development right away. By connecting one of the ***Flashlite* 386*Ex*** serial ports to your PC and running a telecommunications program, you can immediately upload and execute programs compiled for a PC.

The serial ports, counter/timers, interrupt controller, and speaker port on the ***Flashlite* 386*Ex*** are fully compatible with the IBM PC at both the hardware and software levels. Additional features such as the RS-485 serial port capability, battery-backed RAM and clock/calendar make the ***Flashlite* 386*Ex*** ideal for embedded controller applications.

Peripheral boards are also available to add serial ports, A/D, D/A, high current drivers, relays and isolated I/O for many data acquisition and control applications.

The ***Flashlite 386Ex Development Kit*** (99-0012) includes ***Flashlite* 386*Ex*** single board computer, Programming Cable, Connector Kit, 110Vin AC Adapter, Setup Guide, Schematic and CD with Borland C/C++ V4.52 Compiler, utilities, sample programs and documentation. (220Vin Development Kit 99-0013 available.)

JK microsystems, Inc.

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

Flashlite 386Ex

Specifications

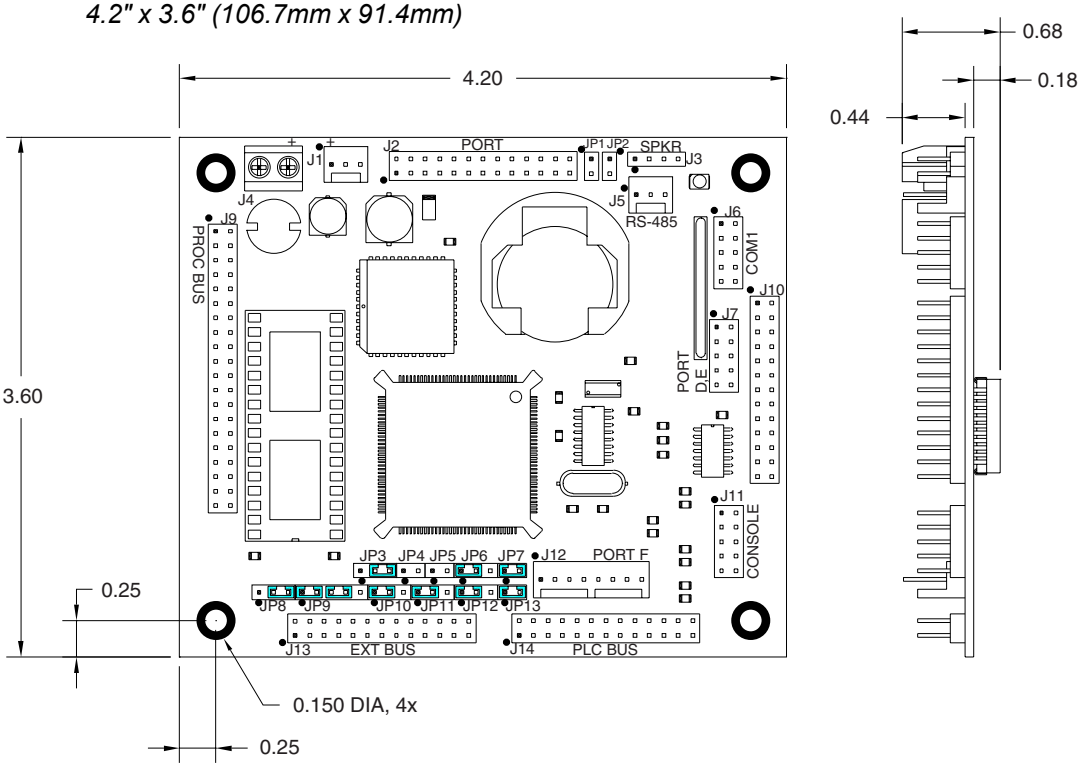
Processor	*25Mhz Intel 386Ex*
Operating System	*XDOS*
	(MS/PC DOS 3.3 compatible)
RAM Memory	*512K Bytes SRAM*
Flash Memory	*512K Bytes Flash Memory*
Serial Port 1	*RS-232 with 5 handshake lines*
	COM1, address 0x3F8, IRQ 4
	115200 baud maximum
Serial Port 2	*RS-232 no handshaking or*
	RS-485 half duplex,
	COM2, address 0x2F8, IRQ 3
	115200 baud maximum
Digital I/O	*34 Digital I/O*
Power Requirements	*7 to 34 Volts DC*
	1.8 Watts, typical
Current Consumption	*260mA at 7 Volts Input*
	150mA at 12 Volts Input
	75mA at 24 Volts Input
Humidity	*5 - 90 %, non-condensing*
Temperature	*-4 to 185°F (-20° to +85°C)*
Weight	*3.0 oz (85 gm)*
Dimensions	*4.2" x 3.6" (106.7mm x 91.4mm)*

Connectors and Jumpers

J2	*Digital I/O Ports ABC*
J3	*Speaker*
J4	*Power*
J5	*RS485*
J6	*Com1*
J7	*Digital I/O Port D*
J9	*Processor Bus*
J10	*Host Parallel*
J11	*Console*
J12	*Digital I/O Ports E*
J13	*Extended Bus*
J14	*PLC Bus*

Optional Features

- *Addition of M-Systems DiskOnChip, 512K SRAM or 512K Flash*
- *Peripheral boards for I/O expansion*
- *Matrix Keypad & Character LCD*



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