

LogicFlex-EPX



89-0055
LogicFlex-EPX

- 386 Ex, 25 MHz / 512K Flash, 512K SRAM
- TCP/IP, DOS & Flash File System
- 10BASE-T Ethernet (NE2000 Compatible)
- 16 Optically Isolated Inputs
- 16 SPDT Relays, 125 VAC/500mA Contacts
- 32 Pin Dip Socket to accept 512K Flash, 512K SRAM or M-Systems DiskOnChip
- Two PC Compatible Serial Ports
 - 1 - RS232, 5 wire (Tx, Rx, RTS, CTS, GND)
 - 1 - RS232 (3 wire) / RS485, Software Selectable
- Watchdog Timer
- Hardware Clock/Calendar
- 7 to 34 VDC (3 Watts nominal)
- LCD and 6 Key User Interface
- 1RU Rack Mount Enclosure
- 1.75" High, 4.63" Deep
- Optional 8 Channel, 12-bit A/D
- Serial bus for use with Multi-I/O peripheral boards

Packaged in a slim 1RU rack mount enclosure, the **LogicFlex-EPX** uses 2-part detachable screw terminals to easily integrate existing equipment without costly interface boards, thus eliminating the wiring problems commonly associated with board level product integration.

Standard I/O features incorporate 16 optically-isolated inputs, 16 relay outputs, 2 serial ports, and onboard Ethernet, which connects directly to 10BASE-T networks via RJ45. A back lit LCD, 6 push buttons, flexible storage options, expansion bus for peripheral boards, and optional 8-channel A/D, all add versatility to the **LogicFlex-EPX** system. The powerful Intel 386Ex processor, NE2000 compatible Ethernet, preinstalled TCP/IP Web server software and DOS operating system allow design and debugging in a familiar environment. The serial ports, counter/timers, and interrupt controller are fully compatible with the IBM PC at both the hardware and software levels. Additional features include a watchdog timer, RS485 serial port capability, hardware clock/calendar and high-efficiency switching input voltage regulator.

Combined with JK microsystems aggressive pricing and embedded solution support, the **LogicFlex-EPX** is a superb choice for many industrial control and networking designs.

The **LogicFlex-EPX Development Kit** (99-0055) includes a **LogicFlex-EPX** (with preinstalled **LogicFlex** controller), Programming Cable, Connector Kit, Ethernet Cable, 110 VAC Adapter, Setup guide, Schematics and CD with Borland C/C++ V4.52 Compiler, utilities, sample programs and documentation. (220Vin Development Kit 99-0056 available.)

Also included are sample programs and source code for the TCP/IP stack and web server that can be compiled with the Borland C/C++ package.

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LogicFlex-EPX

Specifications

Processor	Intel 386Ex, 25Mhz
Operating System	XDOS (MS/PC DOS 3.3 compatible)
Memory	512K SRAM, 512K Flash
Ethernet	10BASE-T, Status and Activity LEDs
Serial Port 1	RS-232 with 2 handshake lines
Serial Port 2	RS-232 (no handshaking) or RS-485 half duplex
Discrete Inputs	16 Channels, configurable as Optically Isolated or Dry Contact
Relay Outputs	16 Channels, SPDT Configuration, Contacts rated at 500mA, 125 VAC
TTL Digital I/O	6 Bits (P1.4-P1.7, P3.3-4) Pin configurable as input or output 8mA source/sink
LCD	2 Line x 16 Column, LED Backlight, Software Drivers
Button Input	6 Button, Software Drivers
Watchdog	Programmable timeout period, Generates board wide reset
Clock/Calendar	Hardware, battery backup
Supply Power	7-34 V unregulated DC, 3 Watts

Humidity	5 - 90%, non-condensing
Temperature	-4 to 185°F (-20 to +85 °C)
Weight	42 oz (1.19 kg)
Dimensions	1RU, 4.63" (117.6mm) Deep

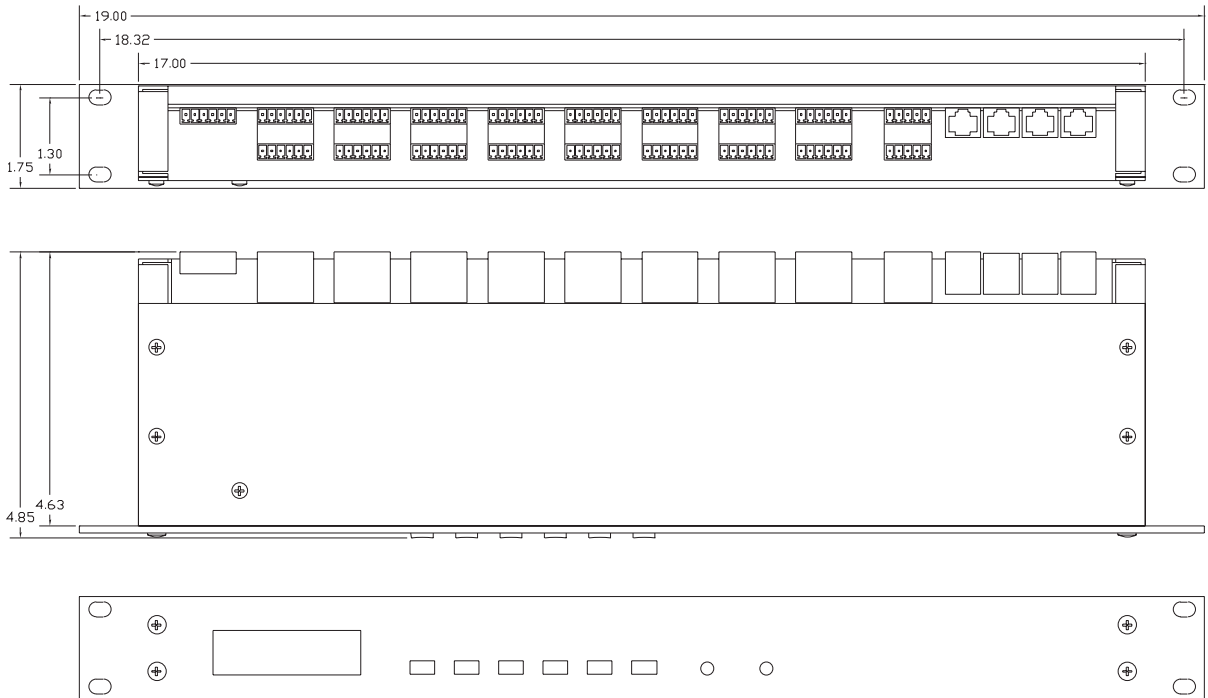
See the **LogicFlex Datasheet** for more information.

Connectors and Jumpers

J1-8	Discrete Inputs / Relay Outputs
J9	Power, RS-485, CTL input
J17	Multi-I/O Bus (General I/O)
J18	10BASE-T Ethernet
J21	COM1
J22	COM2 / Console
J23	Analog Inputs

Optional Features

- M-Systems DiskOnChip, 512K Flash or 512K SRAM
- 8 Channels of 12-bit A/D (MAX197) using A/D Upgrade Kit (99-0057)
- Multi-I/O peripheral boards for expanded I/O



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