LogicFlex-EPX Software Package

JK-EPX User Manual

* JK-EPX is a complete software package that controls the *LogicFlex-EPX*.

* This software drives LogicFlex's embedded 2X16 LCD, monitors and reacts to user-
pressed buttons, controls I/O relays, offers remote control between multiple LogicFlex-
EXP devices using TCP/IP, allows users a telnet server interface for remote monitoring,
and provides a complete user interface.

* Its compiled EXE is preinstalled in *LogicFlex-EPX*.

How To Use JK-EPX

* To start the software package:
1) Connect the Com2/Console port (J22) to your PC's serial port with the
console cable (P/N 86-0025).
2) Connect your 10BASE-T network cable (P/N 86-0019) between the Ethernet
socket (J18) on your *LogicFlex-EPX* and the network hub.
3) Open a HyperTerminal program on your PC and configure the serial port for
9600 baud, 8 data bits, 1 stop bit and no parity.
4) Apply power to the *LogicFlex-EPX* using the AC adapter (P/N 70-0009) or a
source of unregulated DC (7 to 34V) capable of supplying 500mA to J9. J9
pin 5 is positive and J9 pin 4 is negative.
5) When the Hyper Terminal program is on your PC's screen and power is
connected the *LogicFlex-EPX* should respond with a welcome message and a
B:\> prompt.
6) Type **jkepx.exe** then press **enter.**
7) Your *LogicFlex-EPX* LCD will now have text on the screen, follow the
prompts on the screen by pressing the buttons indicated.
8) The following are descriptions of the buttons on the front of the *LogicFlex-
EPX* and their function.

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* Buttons:

        UP : Move arrow up; scroll up; select numbers, letters.

        DOWN : Move arrow down; scroll down; select numbers, letters.

        LEFT : Return to previous menu; move cursor to the left.

        RIGHT: Trigger the option pointing by the arrow; move cursor to the right.

        PLUS : Process my data now !
        (in Connect to WWW menu, if connection is not established within
        a couple of seconds, your remote host is probably not ready yet.
        You can press the ' + ' button to stop currently failed connection and
        try connecting again.).

        MINUS: Exit.
        Pressing ' - ' in main menu will exit JK-EPX. User control will be shifted to DOS.
        Pressing ' - ' during established connection will disconnect from WWW.

* All menus, selections, and submenus are very user friendly.
  Instructions displayed are intuitive and easy to follow.

Source Code

*The structure of this program has been built using a State-Machine based
  implementation. Control variables, flags, and 3 levels of data structures
  are active throughout the program. This provides a variety of user options
  including: TCP/IP connectivity, memory capability, and enhanced performance.

* See jkepx.ide, jkepx.cpp for more details.

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Editing Source Code

* To start your software development open a C or C++ compiler. Next, go to **open project**, a screen will appear that will allow you to select a file to open. Select the file **jkepx.ide** then press **ok**. At this point you will are looking at the source code for the JK-EPX software package and you are able to begin developing it for your use.

Remote Control of JK-EPX

* In order to control one *LogicFlex-EPX* by another *LogicFlex-EPX* first refer to How To Use JK-EPX at the beginning of this manual. Once those steps have been completed and you have entered the main menu on the *LogicFlex-EPX* LCD press the **Down** or **Up** arrow button until you see "**->Client/Server?**." Press the **Right** arrow button then make one *LogicFlex-EPX* the **Client**, which will control the other *LogicFlex-EPX* that you set as the **Server**. Make your way back to the main menu and press the **Down** or **Up** arrow button until you see "**->Set IP Address**." Press the **Right** arrow button then Set the IP address for the local *LogicFlex-EPX* and then set the IP address for the remote *LogicFlex-EPX*. Make your way back to the main menu and press the **Down** or **Up** arrow button until you see "**->Connect to WWW**." Now press the **Right** arrow button on the server first then the **Right** arrow button on the **Client** to connect. Once connected the *LogicFlex-EPX* that is the **Client** will be the only *LogicFlex-EPX* that will have menu items available. The **Server** *LogicFlex-EPX* will only echo the commands that are being sent from the **Client** and respond to those commands.

Telnet

* The telnet application that has been designed into this software package is user friendly and easy to use. After connecting your 10BASE-T network cable (P/N 86-0019) between the Ethernet socket (J18) on your *LogicFlex-EPX* and the network hub simply open a telnet terminal and click on the **Connect** button. Next, click on the **Remote System** button, this will bring up a screen that will ask for the Host Name, Port, and Term Type. For the Host Name enter the IP address that you have previously set for your *LogicFlex-EPX*. For the Port, type or select **telnet**. For the Term Type, type or select **vt100**. Finally, click on the **connect** button and the telnet server program will appear in your telnet terminal.

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* If the telnet server does not appear repeat the process above. If a screen appears containing a red circle with a white X in the middle and the message **Could not open a connection to (your IP address here),** check you Ethernet cable and make sure your *LogicFlex-EPX* is turned on.

* The telnet server has been designed to work any time there is a scrollable menu on the 2X16 LCD and when one *LogicFlex-EPX* is connected to another for remote control purposes. There are very few times that a telnet terminal will not be able to access the telnet server embedded in this software package.

Help Contact

* Please contact JK microsystems if you have any questions.

> Our info:
> JK microsystems, Inc.
> http://www.jkmicro.com
> 530-297-6073 (Voice)
> 530-297-6074 (FAX)
> mailto:support@jkmicro.com

* Thank you for purchasing our product.

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JK microsystems, Inc.

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