

Technovision Inc.

Reference Guide



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Operation

The Technovision KPC-2 is a stand-alone controller with varied applications. It can be used to control CD Players, MP3, or DVD players, Video Switchers, and other RS232 devices. The KPC-2 can also be interfaced to 16 industrial push buttons or a telephone keypad as well as controlling RELAYS, reading and generating analog signals and controlling lighting devices through it's 25-pin EXTERNAL CONTROL port.

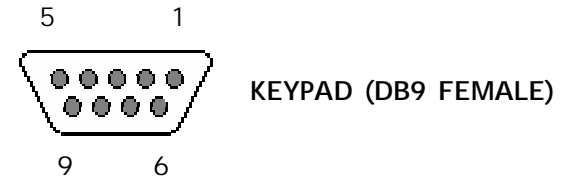
Standard Features

- FLASH based processor for site updating of firmware via RS232 port.
- 16 button keypad port.
- Two RS232 devices can be controlled.
- 4-position switch for customer defined functions.
- LED status lights (firmware controlled)
- CD player control port.
- Multi-function EXTERNAL CONTROL port.

Related products for the KPC-2

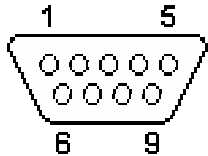
- PC-2 Controller
- MP3sa Industrial MP3 Player
- TecCD Industrial CD Player
- Power Adapter
- LD48 Lamp Controller
- 421VS Video/Audio switcher
- Digital 7 Segment Displays
- Pushbuttons
- KEY34 Keypad

Connectors



PIN#	Description
1	GROUND
2	RETURN 0
3	RETURN 1
4	RETURN 2
5	RETURN 3
6	SCAN 0
7	SCAN 1
8	SCAN 2
9	SCAN 3

EXTERNAL CONTROL Port (DB25 MALE)			
Pin #	SIGNAL NAME	Pin #	SIGNAL NAME
1	GROUND	14	VCC (5 VDC)
2	MCLR	15	PA7
3	PA6	16	PA5
4	PA4	17	PA3
5	PA2	18	PA1
6	PA0	19	PB7 (TOCK1)
7	PB6 (PGM)	20	PB5
8	PB4	21	PB3
9	PB2	22	PB1
10	PB0	23	PGD
11	PGC	24	RB5
12	RB4	25	VCC or VIN
13	GROUND		



COMM port (DB9 MALE)

PIN#	Description
1	nc
2	RX1 (RS232 input)
3	TX1 (RS232 output)
4	nc
5	Ground
6	nc
7	TX2 (RTS/RS232 output)
8	RX2 (CTS/RS232 input)
9	Regulated 5 Vdc output

Description of Connector P6

JUMPED	Description
1 and 2	VCC is output on pin 25 of the EXTERNAL CONTROL port.
3 and 4	VIN is input on pin 25 of the EXTERNAL CONTROL port.
5 and 6	VIN is routed to RA4
7 and 8	VCC is routed to RA4

Downloading programs to the KPC2

You will require a Technovision KPCPRG cable to download programs from your computer to the KPC2. To begin downloading the HEX file to the KPC2 you must hold down the "BOOTSTRAP ENABLE" button within the KPC2 while powering up the controller. This will clear the existing program, thus turning the STATUS LED off.

You can then transfer the HEX file to the KPC2 by using the "SEND TEXT FILE" option in HyperTerminal (or any Terminal program), to the KPC2 at 57600 baud, 8 bits, no parity, 1 stop and HARDWARE FLOW CONTROL. When you are transferring the file "....." will display on your terminal screen. At the end of the transfer, an "S" will indicate a successful transfer.

THE TRANSFER DOES NOT USE A TRANSMISSION PROTOCOL - JUST THE BASIC "SEND TEXT FILE" OPTION.

Here are additional notes:
 Using a Windows 98 machine you must ensure that the FIFO buffers are disabled.
You can verify this by:
 1) Open the "Control Panel" window and double click on the "System" folder
 2) Select the "Device Manager" page
 3). Double click on the "PORTS (COM & LPT) devices menu option to expand the menu to show the individual ports on the machine.
 4) Double click on the "COM PORT" that will be used for downloading the program to open the "Communications Port (x) Properties" window
 5) Select the "Port Settings" page
 6) Click on the "Advanced" box to open the "Advanced Port Settings" window
 7) Within this window the "Use FIFO Buffers (requires 16550 compatible UART)" option must be DISABLED - make sure there is no tick in the box.

Physical features for the KPC-2

Power Requirements:

AC 120V, 60 Hz
 (9V DC, 500mA power adapter included)

Power Consumption:

1 W max.

Net Weight:

330 g. (.75 lbs.)

Dimensions (HxWxD)

1.9" x 9.1" x 2.6" (47 x 228 x 65mm)

Operating Temperature:

32 to +132 deg. F (0 to +50 deg. C)

Operating Humidity

0 to 90 % non-condensing

For technical assistance please contact
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