

# Multi-32/LPCI



## » Features

- Serial Card (Supports 32 Ports) with Expandable by 8 Ports Panel
- Supports PCI and PCI-X Bus Interface
- RS-232 or RS-422/485(Combo) Interface: 32 ports
- 256 byte FIFO, the Largest Size in the World
- Maximum Communication Speed: 921.6kbps
- Power Supply from pin #9: 5 or 12 V
- Auto Toggling: Automatic control I/O of the Bus for RS-422/485
- Slew-rate Limit Control
- 15kV Surge Protection

## Overview

Multi-32/LPCI supports total 32 ports used with panels that can be expanded by 8 ports. It is equipped with SB4002A and SB16C1058PCI, powerful semiconductor designed by SystemBase. The SB16C1058PCI semiconductor is a UART designed for PCI Bus which has the 256 byte FIFO, the largest in the world. There are no overrun when communicating with 921.6kbps. It has all the necessary components for the serial communication that the developers do not require additional components to design the product. There are RS-232 and RS-422/485 (Combo) models. It is ideal for POS, medical use, factory automation and building automation field.

### Power Supply through Pin #9

The Multi-32/LPCI is designed to supply 5 or 12 volt power through pin #9 to power the external device. This function is ideal for connecting low power device such as barcode readers or POS printers, eliminating the need for an external power supply.

### Auto Toggling

The Multi-32/LPCI has a built-in hardware feature that performs automatic toggling to prevent devices from sending data at the same time causing a crash. This operation is crucial when multiple devices are connected to prevent electrical collisions that lead to errors and unstable communication.

### Slew-Rate Limit Control

The Multi-32/LPCI is equipped with Slew Rate limit control for RS-422/485 interface and when enabled it minimizes EMI emissions which may cause data transmission errors. When Slew Rate is used maximum communication speed is 250kbps. This function is recommended in many medical applications.

## Specification

### Bus Interface

Specification	PCI Local Bus Specification Rev. 2.3
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### Serial

Interface	RS-232, RS-422/485 (Combo)
Number of ports	32 (using four 8-port Panels)
Maximum Speed	921.6 kbps (For 5.3Mbps model, please contact our sales representative.)
Signal Lines	RS-232: TXD, RXD, DTR, DSR, RTS, CTS, DCD, GND, RI (5V or 12V) RS-422: TXD+, TXD-, RXD+, RXD- RS-485: TRXD+, TRXD-
Protection	Built-in ESD Protection: ±15kV
Flow Control	RTS/CTS, XON/XOFF (by Hardware or Software)
Data Crash Prevention	Auto Toggling (by Hardware or Software)

### Hardware

PCI Bus Controller	SB4002A
UART	SB16C1058
Board Connector	DB44 (Male)
Panel Connector	DE-09P or DE-09S (Male or Female depending on the Panels)

### Software

OS	Windows 7/ 2008/ 8.1/ 10/ 2012
Utility	LINUX
Utility	TestView™

## Operating Environment

Operating Temperature	0 ~ 50 °C
Storing Temperature	-20 ~ 70 °C
Humidity	5 ~ 95% Non-Condensing

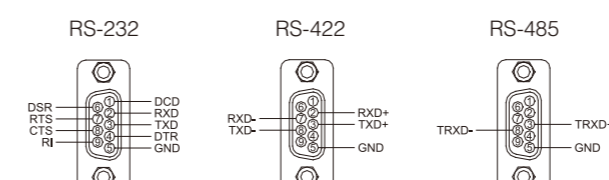
## Certifications

KC, CE, FCC

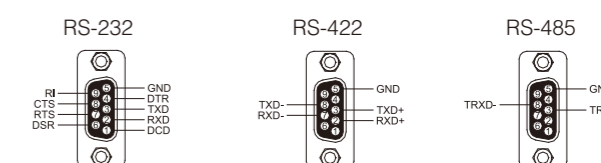
## Ordering Information

Multi-32/LPCI	Multi-32/LPCI, CD(Driver, Manual and Utility)
Panel-8E/232 Male	Panel-8e Male RS-232
Panel-8E/232 Female	Panel-8e Female RS-232
Panel-8E/Combo Male	Panel-8e Male Combo (RS-422/485)
Panel-8E/Combo Female	Panel-8e Female Combo (RS-422/485)

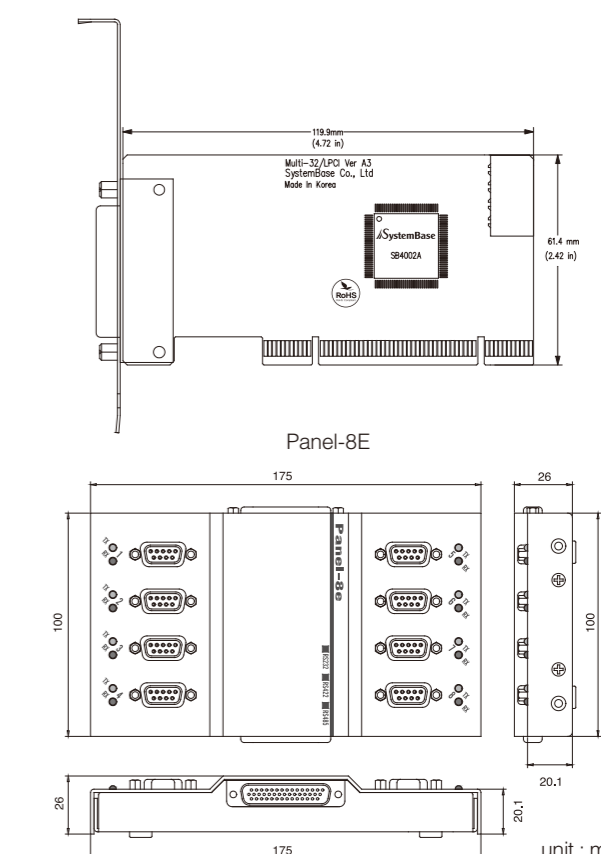
## Pin Assignment (DE9 Male)



## Pin Assignment (DE9 Female)



## Dimension



Sales : marketing@sysbas.com  
Technical Support : www.solvline.com