SystemBase

Multi-8/LPCIe

Features

- 8 Ports Serial Card
- Supports PCI Express Base Specification Rev. 2.0
- RS-232 or RS-422/485(Combo) Interface: 8 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-8/LPCIe is equipped with PCIe to PCI Bridge 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-8/LPCIe 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. (This feature is supported from version 2.0 or greater.)

Auto Toggling

The Multi-8/LPCIe 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-8/LPCIe 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 Express Base Specification Rev. 2.0

Serial

Interface	RS-232, RS-422/485 (Combo)
Number of ports	8
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 Software)

Hardware

Controller	SB16C1058PCI
Board Connector	DB44 (Male)
Panel Connector	DE-09S (DB9 Female)

Software

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

Operating Environment

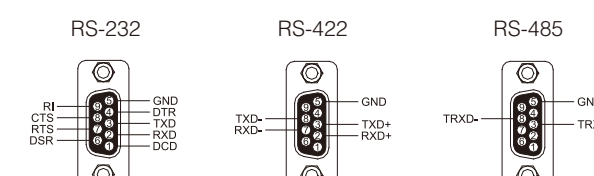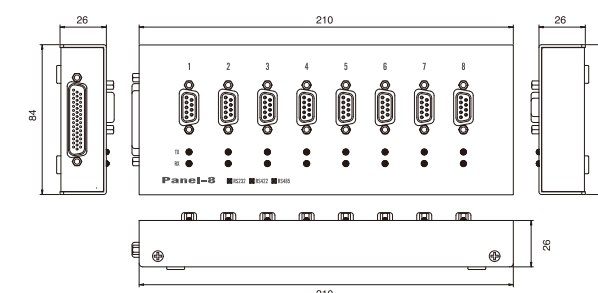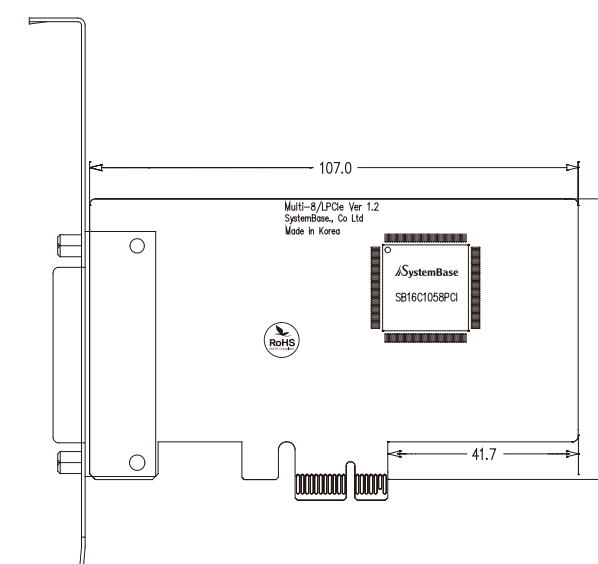| Operating Temperature	0 ~ 50 °C
Storing Temperature	-20 ~ 70 °C
Humidity	5 ~ 95% Non-Condensing

Certifications

KC, CE, FCC

Ordering Information

Multi-8/LPCIe 232	Multi-8/LPCIe D-sub 44-Pin Male CD(Driver, Manual and Utility)
Panel-8/232	Panel-8 Female RS-232
Panel-8/Combo	Panel-8 Female Combo (RS-422/485)

Dimension

107.0
61.4
41.7

Multi-8/LPCIe Ver 1.2
SystemBase, Co Ltd
Made in Korea

SystemBase
SB16C1058PCI

26 210 26
84 84
26
210

unit : mm

Pin Assignment

RS-232
RI, CTS, RTS, DSR
GND, DTR, TXD, RXD, DCD

RS-422
TXD-, RXD-
GND, TXD+, RXD+

RS-485
TRXD-
GND, TRXD+

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