SER6456A

4-port RS-232
PCI Express Board

Introduction

SUNIX SER6456A, PCI Express serial communication boards meet the PCI Express Base Specification Revision 2.0. It is compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus allowing it to be installed in any PC-based system. The majorities of today's motherboards is not equipped with serial ports or only have one serial port. With SUNIX PCI Express serial board, users can add four serial ports to their system, allowing them to use serial devices further. SUNIX SER6456A card has 128-bytes onboard FIFO buffer and compatible with 16C950 UART specification. It is designed with SUNIX UART controller, SUN2410 and as well built with many of SUNIX advanced features and technologies, making it the best solution for commercial and industrial automation applications.

Features

- Expands 4 independent RS-232 serial ports with communication speeds up to 115.2Kbps.
- With high reliable SUNIX SUN2410 native PCI Express 16C950 UART controller.
- Designed to meet PCI Express Base Specification Revision 2.0.
- Supports x1, x2, x4, x8, x16 (lane) PCI Express Bus connector keys.
- On-chip hardware auto flow control to guarantee no data loss.
- Built-in ± 15KV ESD protection.
- Plug-n-Play, I/O address and IRQ assigned by BIOS.
- Certified by CE, FCC, RoHS, and Microsoft WHQL approval.
- Support Microsoft Windows, Linux, and DOS.

Specifications

General

Interface	RS-232
Controller	SUNIX SUN2410 (16C950 UART Compatible)
BUS	PCI Express Spec 2.0, Single-Lane (x1)
IRQ & IO	Assigned by System

Serial Communication

Interface	RS-232
No. of Port	4-port
FIFO	128byte Hardware
Signal	DCD, TxD, RxD, RTS, CTS, DTR, DSR, GND, RI
Baud rate	50bps ~ 115.2Kbps
Stop bit	1, 1.5, 2
Parity	even, odd, none, mark, space
Flow Control	None, Xon/Xoff, RTS/CTS
ESD Protection	$\pm$15KV Air Gap Discharge $\pm$8KV Contact Discharge
PCB Connector	DB44 Female

Driver Support

Windows Client	XP / Vista / 7 / 8.x / 10 (X86/X64) / 11
Windows Server	2003 / 2008 / 2012 / 2016 / 2019 / 2022 (X64)
Windows Embedded	Windows CE 4.2/5.0/6.0 XP Embedded / POSReady 2009 / POSReday 7 / Embedded System
Linux	Linux 2.x / 3.x / 4.x / 5.x
DOS	DOS

Regulatory Approvals

| Hardware	CE/FCC/VCCI/BSMI
Software	Microsoft WHQL Windows Windows Client: XP / Vista / 7 / 8.x / 10 (X86/X64) / 11 Windows Server: 2003 / 2008 / 2012 / 2016 / 2019 / 2022 (X64)

Environment

Operation Temperature	0 to 60°C (32 to 140°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

PCB Dimension	65 x 69 mm
Bracket	Standard 121 mm
Bracket Space	1

Mechanical Drawings (Unit = mm)
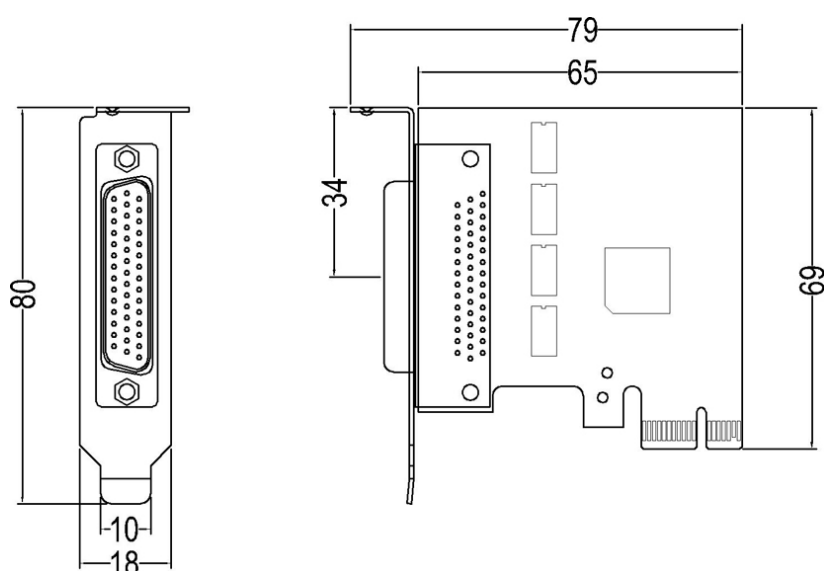
Pin Assignment

Serial
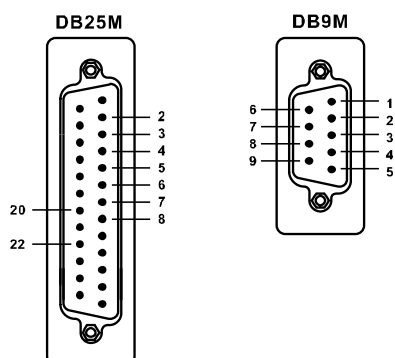
PIN	DB9M	DB25M
DCD	1	8
RxD	2	3
TxD	3	2
DTR	4	20
GND	5	7
DSR	6	6
RTS	7	4
CTS	8	5
RI	9	22

Application
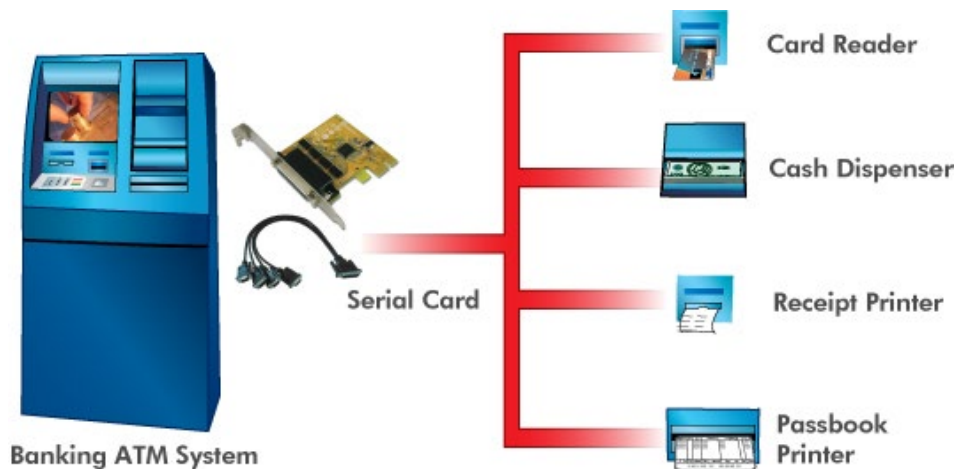
Package

- SER6456A- 4-port RS-232 PCI Express Board.
- Quick Installation Guide.
- Software CD Driver
- DB44 to 4-port DB9 Male Connection Cable, 40 cm

    Part No.: 1WDB-44M04009D4003

Optional Accessories

- PCIe Add-on Card Holder

    Part No.: 13BF-PCIEFIX0