



SER6427AL

1-port RS-232 PCI Express
Low Profile Board



Introduction

SUNIX SER6427AL, 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 slim size PC-based system with low profile bracket structure. 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 1 serial port to their system, allowing them to use serial devices further. SUNIX SER6427AL card has 128-bytes onboard FIFO buffer and compatible with 16C950 UART specification. It is designed with SUNIX UART controller, SUN2212 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 one independent RS-232 serial ports with communication speeds up to 115.2Kbps.
- With high reliable SUNIX SUN2212 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 ± 15 KV ESD protection for all serial signals meets IEC1000-4-2 standard.
- Plug-n-Play, I/O address and IRQ assigned by BIOS.
- Low profile bracket design idea for slim or portable PC.
- Certified by CE, FCC, RoHS, and Microsoft WHQL approval.
- Support Microsoft Windows, Linux, and DOS.



Specifications

General

Interface	RS-232
Controller	SUNIX SUN2212 (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	1-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
Protection	±15KV ESD protection for each signal Human Body Model (HBM) ±15KV IEC1000-4-2 Air Gap Discharge ±8KV IEC1000-4-2 Contact Discharge
PCB Connector	DB9 Male

Driver Support

Microsoft Client	XP / Vista / 7 / 8 (X86/X64)
Microsoft Server	2000 / 2003 / 2008 / 2008R2 (X86/X64)
Microsoft Embedded	Windows CE4.2/5.0/6.0 / XP Embedded / POS Ready 2009 / Embedded System 2009
Linux	Linux 2.4.x / 2.6.x /3.x
DOS	DOS
FreeBSD	FreeBSD 5.3~5.5 / 6.0~6.4
QNX	QNX 6.3.2/6.4.0

Regulatory Approvals

Hardware	CE EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, VCCI Class B FCC Part 15 Class B, BSMI: CNS13438, C-Tick: CISPR22 AS/NZS, RoHS
Software	Microsoft WHQL Windows Microsoft Client: XP / Vista / 7 / 8 (X86/X64) Microsoft Server: 2000 / 2003 / 2008 (X86/X64)



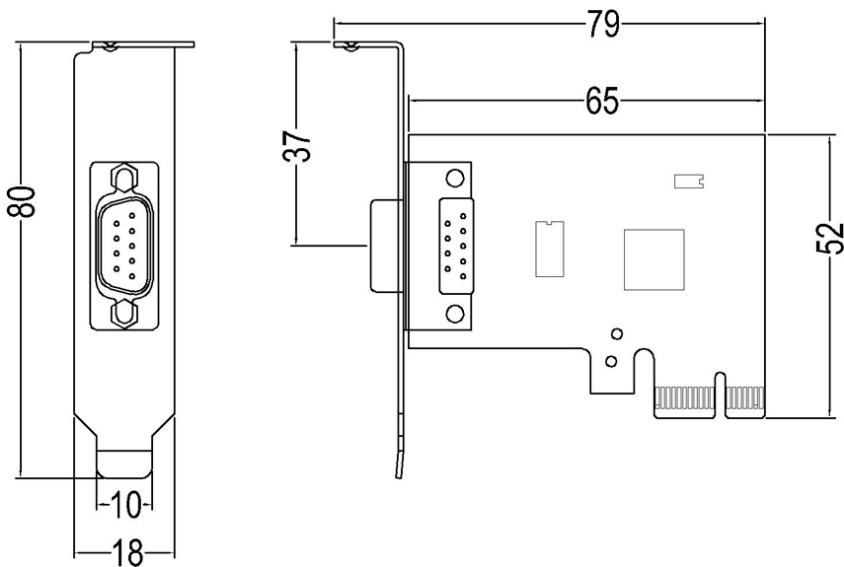
Environment

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

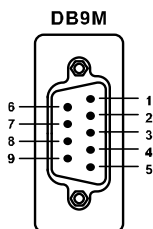
PCB Dimension	65 x 52 mm
Bracket	Low Profile 80 mm
Bracket Space	1

Mechanical Drawings (Unit = mm)



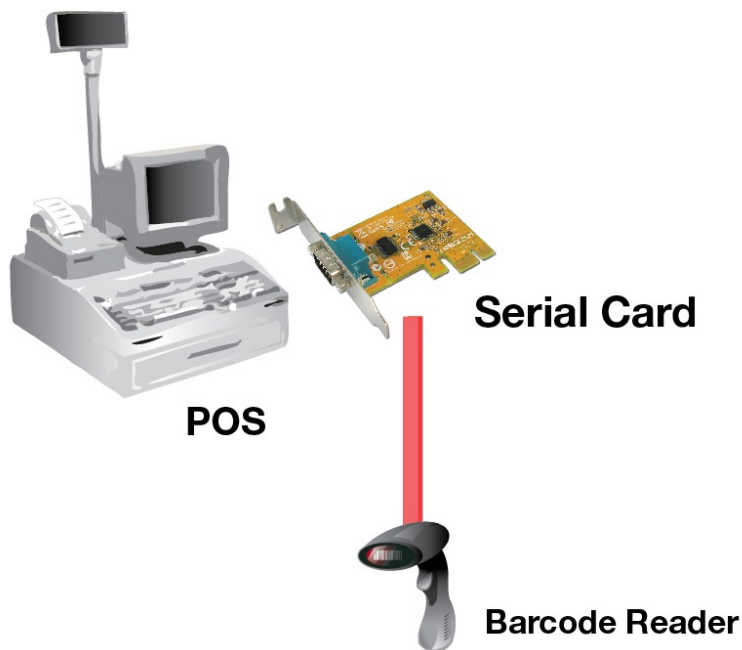
Pin Assignment

Serial



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

Application



Package

- SER6427AL- 1-port RS-232 PCI Express Low Profile Board.
- Quick Installation Guide.
- Software CD Driver

Optional Accessories

- PCIe Add-on Card Holder
Part No.: 13BF-PCIEFIX010000





Order Information

Bus	Port	Connector	Baud Rate	ESD Protection	Power output	Bracket	Model NO.
PCI Express	16	Mini SCSI 68 Female	921.6Kbps	±15KV	-	Standard	SER5416H
			115.2Kbps				SER5466A
	921.6Kbps	SER5466H					
	8	DB62 Female	115.2Kbps			Low Profile	SER5466AL
			921.6Kbps				SER5466HL
	4	DB44 Female	115.2Kbps			-	Standard
			921.6Kbps		SER6456H		
			115.2Kbps		SER6456P		
			921.6Kbps		SER6456S		
			921.6Kbps		SER6456PH		
			115.2Kbps		SER6456SH		
			921.6Kbps		5V/12V	Low Profile	SER6456AL
			115.2Kbps				SER6456HL
			921.6Kbps				SER6456PL
			115.2Kbps				SER6456SL
			921.6Kbps				SER6456PHL
			921.6Kbps				SER6456SHL
	2	DB9 Male	115.2Kbps		-	Standard	SER6437A
			921.6Kbps				SER6437H
			115.2Kbps				SER6437P
			921.6Kbps				SER6437S
		DB44 Female	115.2Kbps		5V/12V	Low Profile	SER6437PH
			921.6Kbps				SER6437SH
			115.2Kbps				SER6437AL
			115.2Kbps				SER6437HL
	1	DB9 Male	115.2Kbps		-	Standard	SER6437PL
			921.6Kbps				SER6437SL
			115.2Kbps				SER6437PHL
			921.6Kbps				SER6437SHL
			115.2Kbps				SER6427A
			921.6Kbps				SER6427H
			115.2Kbps		5V/12V	Low Profile	SER6427P
921.6Kbps			SER6427S				
115.2Kbps			SER6427PH				
921.6Kbps			SER6427SH				
115.2Kbps			SER6427AL				
921.6Kbps			SER6427HL				
		115.2Kbps			SER6427PL		
		921.6Kbps			SER6427SL		
		115.2Kbps			SER6427PHL		
		921.6Kbps			SER6427SHL		

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