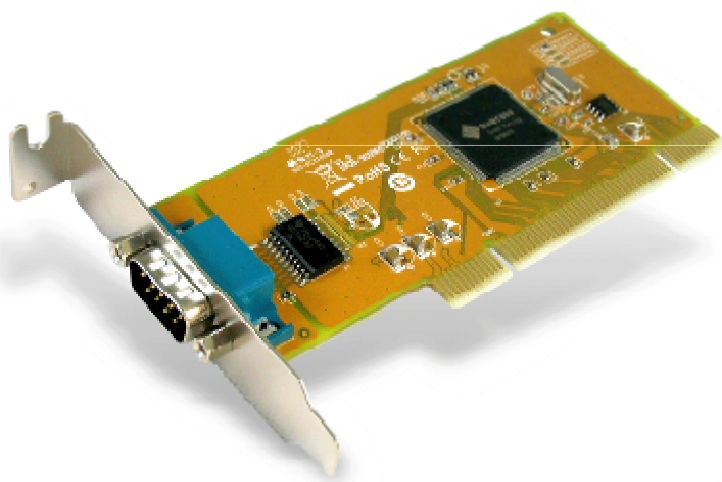




SER5027AL

1-port RS-232 Universal PCI
Low Profile Serial Board



Introduction

SUNIX SER5027AL, Universal PCI serial communication board, allows users to add or expand one RS-232 port on PC-based system. The card is compatible with both 64 / 32-bit PCI architecture supporting 3.3 and 5V Bus, allowing it to be installed in any slim size PC-based system with low profile bracket structure. SUNIX SER5027AL card has 128-bytes onboard FIFO buffer and compatible with 16C950 UART specification. It is designed with SUNIX UART controller, SUN1989 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 1 independent RS-232 serial port with communication speeds up to 115.2Kbps.
- High speed SUN1989 16C950 compatible UART controller on-board.
- Compliance with PCI 33MHz Ver. 3.0/2.3/2.2./2.1 specification.
- Supports both 64-bit & 32-bit PCI bus slot and 3.3V & 5V power.
- On-chip hardware auto flow control to guarantee no data loss.
- Built-in ± 2 KV ESD protection for all serial signals.
- 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

Serial Communication

Interface	RS-232	Signal	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI
Controller	SUNIX SUN1989 (16C950 UART Compatible)	Baud rate	50bps ~115.2Kbps
BUS	Universal PCI 64/32bit 3.3V/5V PCI Ver 3.0, 2.3, 2.2, 2.1	Stop bit	1, 1.5, 2
No. of Port	1-port	Parity	even, odd, none, mark, space
IRQ & IO	Assigned by System	Flow Control	None, Xon/Xoff, RTS/CTS
FIFO	128byte Hardware	PCB Connector	DB9 Male
Protection	±2KV ESD protection for each signal Human Body Model (HBM)		

Driver Support

Microsoft Client	Windows XP/Vista/7 (X86/X64)
Microsoft Server	Windows 2000/2003/2008 (X86/X64)
Microsoft Embedded	Windows CE5.0/6.0/XP Embedded/POS Ready 2009/Embedded System 2009
Linux	Linux 2.4.x/2.6.x
DOS	DOS
FreeBSD	FreeBSD 5.3~5.5 / 6.0~6.4
QNX	QNX 6.3.2/6.4.0
* IBM OS/2	WARP 3/WARP 4
* SCO UnixWare	UnixWare 7.1.3/7.1.4/ Open Server 5.0.7/6.0
* Sun Microsystems	Solaris 10
Note : " * " Supported by special inquiry.	

Regulatory Approvals

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

Environment

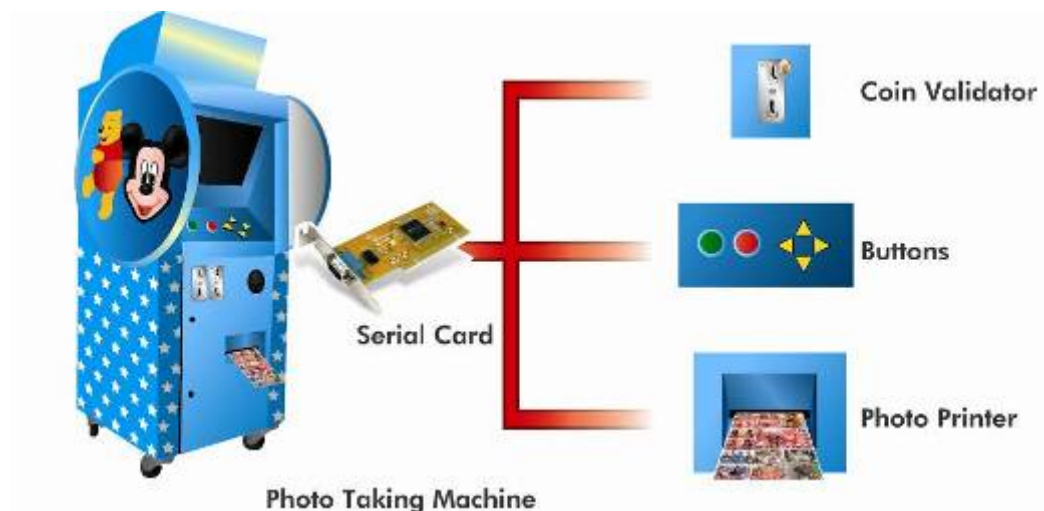
Operation Temperature	0 to 60°C (32 to 140°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

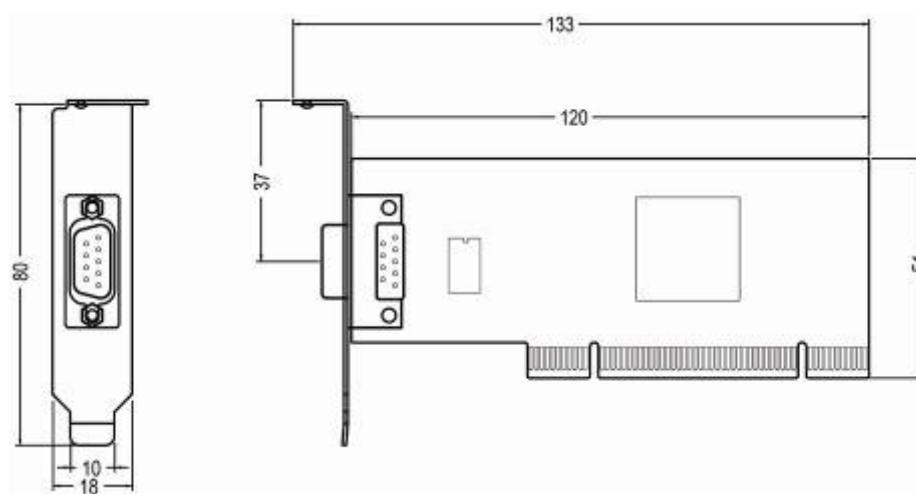
PCB Dimension	120 x 51 mm
Bracket	Low Profile 80 mm
Bracket Space	1



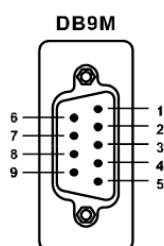
Application



Mechanical Drawings (Unit = mm)



Pin Assignment



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



Packing List

Packing Content

- SER5027AL – 1-port RS-232 Universal PCI Low Profile Serial Board
- Quick Installation Guide
- Software CD ROM





Order Information

Serial RS-232 Interface

Bus	Port	Connector	Baud Rate	ESD Protection	Power output	Bracket	Model NO.
PCI Express	8	DB62 Female	115.2 kbps	±15KV	-	Standard	SER5466A
			921.6Kbps		-		SER5466H
		Mini SCSI 68 Female	115.2 kbps		-	Low profile	SER5466AL
			921.6Kbps		-		SER5466HL
	4	DB44 Female	115.2 kbps		-	Standard	SER5456A
					5V/12V		SER5456P
					-	Low profile	SER5456AL
					5V/12V		SER5456PL
			921.6Kbps		-	Standard	SER5456H
					5V/12V		SER5456PH
					-	Low profile	SER5456HL
					5V/12V		SER5456PHL
	2	DB9 Male	115.2 kbps		-	Standard	SER5437A
		5V/12V				SER5437P	
		DB44 Female	921.6Kbps		-	Low profile	SER5437AL
					5V/12V		SER5437PL
DB9 Male		-		Standard	SER5437H		
DB44 Female		5V/12V			SER5437PH		
		-		Low profile	SER5437HL		
		5V/12V			SER5437PHL		
PCI	8	DB62 Female	115.2 Kbps	±2KV	-	Standard	SER5066A
		Mini SCSI 68 Female			-	Low profile	SER5066AL
		5x2 Pin Header			-	Standard	SER5066U
					-	Low profile	SER5066UL
		DB62 Female	921.6Kbps	±15KV	-	Standard	SER5066H
		Mini SCSI 68 female			-	Low profile	SER5066HL
		5x2 Pin Header			-	Standard	SER5066UH
					-	Low profile	SER5066UHL
	4	DB44 Female	115.2 Kbps	±2KV	-	Standard	SER5056A
					5V/12V		SER5056P
					-	Low profile	SER5056AL
		5x2 Pin Header			5V/12V		SER5056PL
			921.6Kbps	±15KV	-	Standard	SER5056U
					-	Low profile	SER5056UL
		DB44 Female			-	Standard	SER5056H
					-	Low profile	SER5056HL
		5x2 Pin Header			5V/12V		SER5056PH
					-	Standard	SER5056UH
					-	Low profile	SER5056UHL
		DB44 Female			5V/12V		SER5056PHL
	2	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5037A
		5x2 Pin Header			5V/12V		SER5037P
		DB44 Female			-	Low profile	SER5037U
					5V/12V		SER5037AL
		5x2 Pin Header	921.6Kbps	±15KV	-	Low profile	SER5037PL
					-		SER5037UL
		DB9 Male			-	Standard	SER5037H
		5x2 Pin Header			5V/12V		SER5037PH
	1	DB44 Female	115.2Kbps	±2KV	-	Low profile	SER5037UH
					5V/12V		SER5037HL
					-	Low profile	SER5037PHL
		DB9 Male			-	Standard	SER5027A
5x2 Pin Header		921.6Kbps	±15KV	5V/12V	Standard	SER5027P	
				-		SER5027U	
DB9 Male				-	Low profile	SER5027AL	
5x2 Pin Header				5V/12V		SER5027PL	
		921.6Kbps	±15KV	-	Low profile	SER5027UL	
DB9 Male				-		SER5027H	
5x2 Pin Header				5V/12V		SER5027PH	
DB9 Male				-	Standard	SER5027UH	
Express Card	4	DB44 Female	921.6Kbps	±15KV	-	34mm	ECS4000
	2				-	34mm	ECS2000
	1				-	34mm	ECS1000
CardBus	4	DB44 Female	115.2Kbps	±15KV	-	54mm	CBS4000
	2				-	54mm	CBS2000
	1				-	54mm	CBS1000