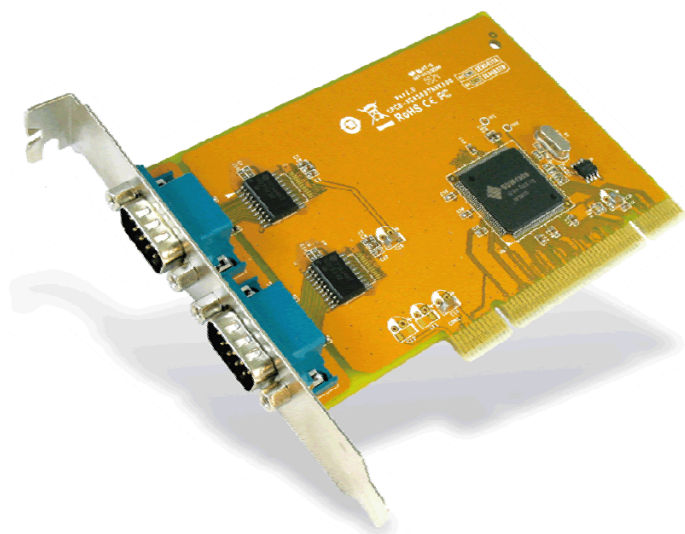




SER5037A

2-port RS-232 Universal PCI
Serial Board



Introduction

SUNIX SER5037A, Universal PCI serial communication board, allows users to add or expand two RS-232 ports 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 virtually any PC-based systems. SUNIX SER5037A 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 2 independent RS-232 serial ports 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.
- 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	2-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

Windows Client	Windows XP/Vista/7/8/8.1 (X86/X64)
Windows Server	Windows 2000 / 2003 / 2008 / 2008 R2 / 2012 / 2012 R2 (X86/X64)
Windows Embedded	Windows CE 4.2/5.0/6.0/XP Embedded/POSReady 2009/POSReady 7/ Embedded System 2009/Embedded Standard 7
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 ◆ Windows Client: XP/Vista/7/8/8.1 (X86/X64) ◆ Windows Server: 2000 / 2003 / 2008 / 2008 R2 / 2012 / 2012 R2 (X86/X64)

Environment

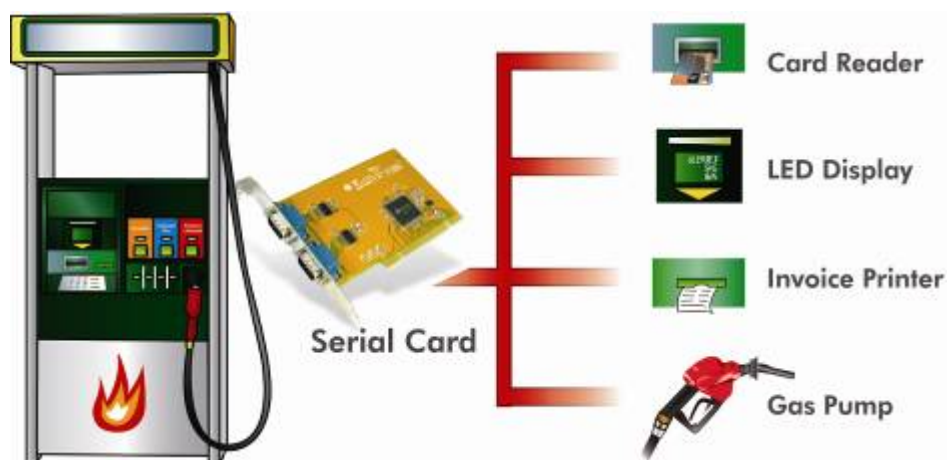
Operation Temperature	0 to 60°C (32 to 140°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

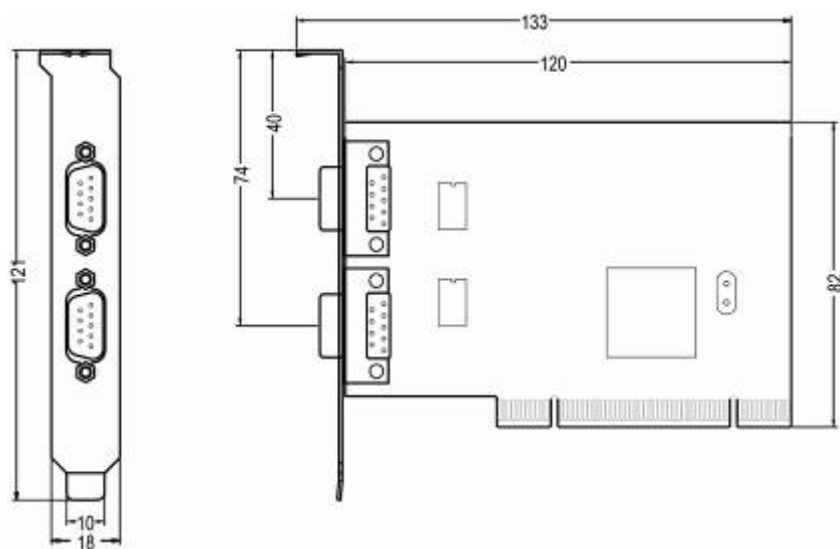
PCB Dimension	120 x 82 mm
Bracket	Standard 121 mm
Bracket Space	1



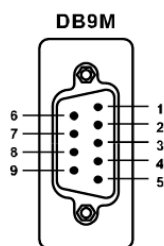
Application



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

- SER5037A – 2-port RS-232 Universal PCI 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			5V/12V		SER5037H	
		5x2 Pin Header			-	Standard	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		SER5027P	
					-		SER5027U	
		DB9 Male			-	Low profile	SER5027AL	
		5x2 Pin Header			5V/12V		SER5027PL	
	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	