



SER5037AL

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



Introduction

SUNIX SER5037AL, 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 any slim size PC-based system with low profile bracket structure. SUNIX SER5037AL 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.
- 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	2-port	Parity	even, odd, none, mark, space
IRQ & IO	Assigned by System	Flow Control	None, Xon/Xoff, RTS/CTS
FIFO	128byte Hardware	Protection	±2KV ESD protection for each signal Human Body Model (HBM)
PCB Connector	DB44 Female		

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)

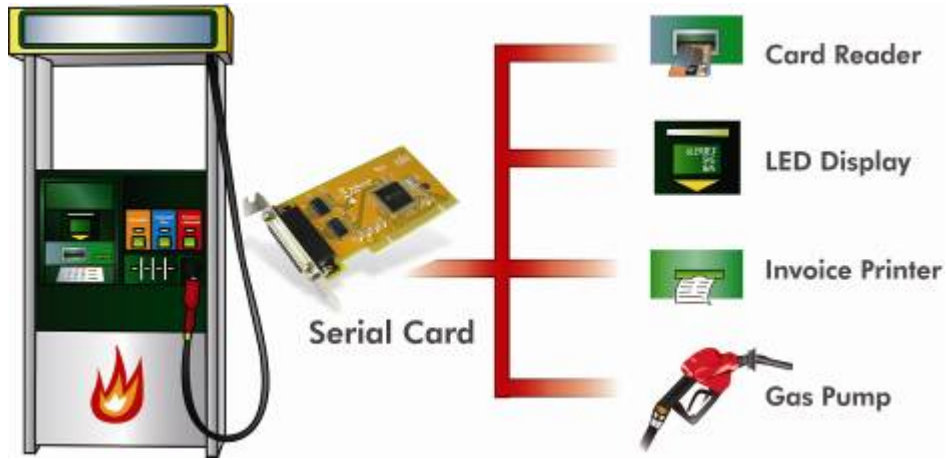
Environment

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)

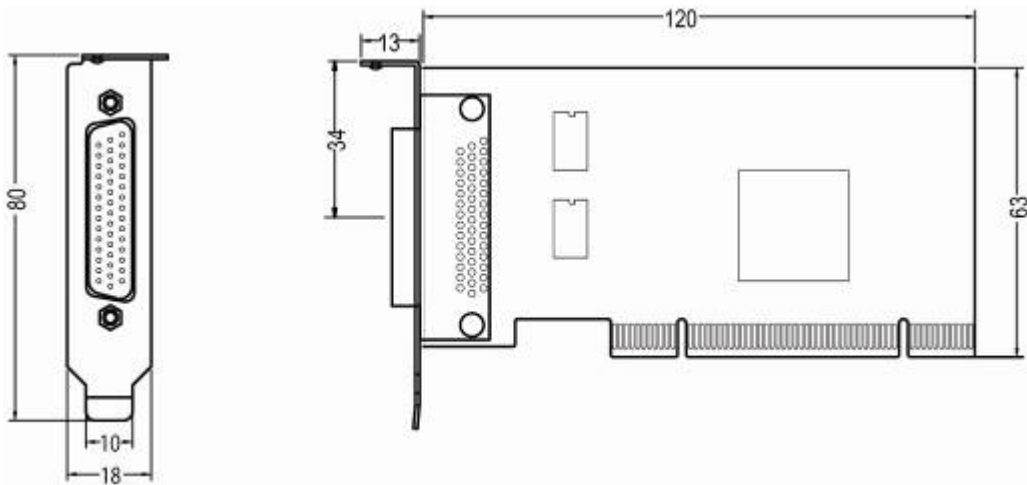
Dimension

PCB Dimension	120 x 63 mm
Bracket	Low Profile 80 mm
Bracket Space	1

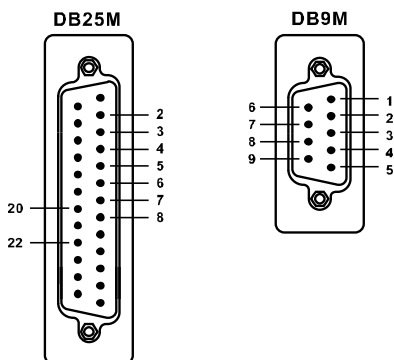
Application



Mechanical Drawings (Unit = mm)



Pin Assignment



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



Packing List

Packing Content

- SER5037AL – 2-port RS-232 Universal PCI Low Profile Serial Board
- Quick Installation Guide
- Software CD ROM
- DB44 to 2-port DB9/DB25 Male Connection Cable, 40 cm



Optional Accessories

- DB44 to 2-port DB9 Male Connection Cable, 40/100 cm

Part Number: 1WDB-44M04009D2000



- DB44 to 2-port DB25 Male Connection cable, 40/100 cm

Part Number: 1WDB-44M04025D2000



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					
			921.6Kbps		-	Low profile	SER5456AL						
					5V/12V		-	SER5456PL					
		DB9 Male	115.2 kbps		-	Standard	SER5456H						
					5V/12V		-	SER5456PH					
			921.6Kbps		-	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	921.6Kbps		-	Standard	SER5437H						
					5V/12V		-	SER5437PH					
DB44 Female	921.6Kbps	-	Low profile	SER5437HL									
		5V/12V		-	SER5437PHL								
PCI	8	DB62 Female	115.2 Kbps	±2KV	-	Standard	SER5066A						
					Mini SCSI 68 Female		-	SER5066AL					
		5x2 Pin Header			-	Low profile	SER5066U						
					-		SER5066UL						
		DB62 Female			921.6Kbps	±15KV	-	Standard	SER5066H				
							Mini SCSI 68 female		-	SER5066HL			
	5x2 Pin Header	-	Low profile	SER5066UH									
		-		SER5066UHL									
	4	DB44 Female	115.2 Kbps	±2KV			-	Standard	SER5056A				
							5V/12V		-	SER5056P			
		5x2 Pin Header	921.6Kbps		±15KV	-	Low profile	SER5056AL					
						5V/12V		-	SER5056PL				
		DB44 Female				-	Standard	SER5056U					
						-		SER5056UL					
	5x2 Pin Header	-		Low profile		SER5056H							
		-				SER5056HL							
	2	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5037A						
					5V/12V		-	SER5037P					
		5x2 Pin Header	921.6Kbps	±15KV	-	Low profile	SER5037AL						
					5V/12V		-	SER5037PL					
		DB44 Female			-	Standard	SER5037U						
					-		SER5037UL						
		DB9 Male			921.6Kbps	±15KV	-	Low profile	SER5037H				
							5V/12V		-	SER5037PH			
		5x2 Pin Header	-	Standard			SER5037UH						
			-				SER5037UHL						
		DB44 Female	-	Low profile			SER5037HL						
			5V/12V				-	SER5037PHL					
	1	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5027A						
					5V/12V		-	SER5027P					
		5x2 Pin Header	921.6Kbps	±15KV	-	Low profile	SER5027U						
					-		SER5027UL						
		DB9 Male			-	Standard	SER5027AL						
					5V/12V		-	SER5027PL					
	5x2 Pin Header	-			Low profile	SER5027UHL							
		-				SER5027PHL							
Express Card	4	DB44 Female	921.6Kbps	±15KV	-	Standard	ECS4000						
					5V/12V		-	ECS2000					
	2				DB9 Male	921.6Kbps	±15KV	-	Low profile	ECS1000			
								5V/12V		-	CBS4000		
	1							DB44 Female	115.2Kbps	±15KV	-	Standard	CBS2000
											5V/12V		-
4	DB9 Male	115.2Kbps	±15KV	-							Low profile	CBS4000	
				5V/12V								-	CBS2000
2				DB44 Female	115.2Kbps	±15KV	-				Standard	CBS4000	
							5V/12V					-	CBS2000
1							DB9 Male	115.2Kbps	±15KV	-	Low profile	CBS1000	
										5V/12V		-	CBS1000