

## SER5466A

8-port RS-232 PCI Express  
Serial Board



### Introduction

SUNIX SER5466A, PCI Express serial communication boards meet the PCI Express Base Specification Revision 1.1. It is compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus. 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 eight serial ports to their system, allowing them to use serial devices further. SUNIX SER5466A card has 128-bytes onboard FIFO buffer and compatible with 16C950 UART specification. It is designed with SUNIX UART controller, SUN1999 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 8 independent RS-232 serial ports with communication speeds up to 115.2Kbps.
- High speed SUN1999 16C950 compatible UART controller on-board.
- Designed to meet PCI Express Base Specification Revision 1.1.
- 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  $\pm 15$ KV ESD protection for all serial signals meets IEC1000-4-2 standard.
- 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

<b>Interface</b>	RS-232	<b>Signal</b>	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
<b>Controller</b>	SUNIX SUN1999 (16C950 UART Compatible)	<b>Baud rate</b>	50bps ~115.2Kbps
<b>BUS</b>	PCI Express one lane (x1)	<b>Stop bit</b>	1, 1.5, 2
<b>No. of Port</b>	8-port	<b>Parity</b>	even, odd, none, mark, space
<b>IRQ &amp; IO</b>	Assigned by System	<b>Flow Control</b>	None, Xon/Xoff, RTS/CTS
<b>FIFO</b>	128byte Hardware	<b>PCB Connector</b>	DB62 Female
<b>Protection</b>	±15KV ESD protection for each signal Human Body Model (HBM) ±15KV IEC1000-4-2 Air Gap Discharge ±8KV IEC1000-4-2 Contact Discharge		

### Driver Support

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

### Regulatory Approvals

<b>Hardware</b>	EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, FCC Part 15 Class B, BSMI: CNS13438, C-Tick: CISPR22 AS/NZS, RoHS
<b>Software</b>	Microsoft WHQL Windows <ul style="list-style-type: none"> <li>◆ Microsoft Client: XP/Vista/7 (X86/X64)</li> <li>◆ Microsoft Server: 2000/2003/2008 (X86/X64)</li> </ul>

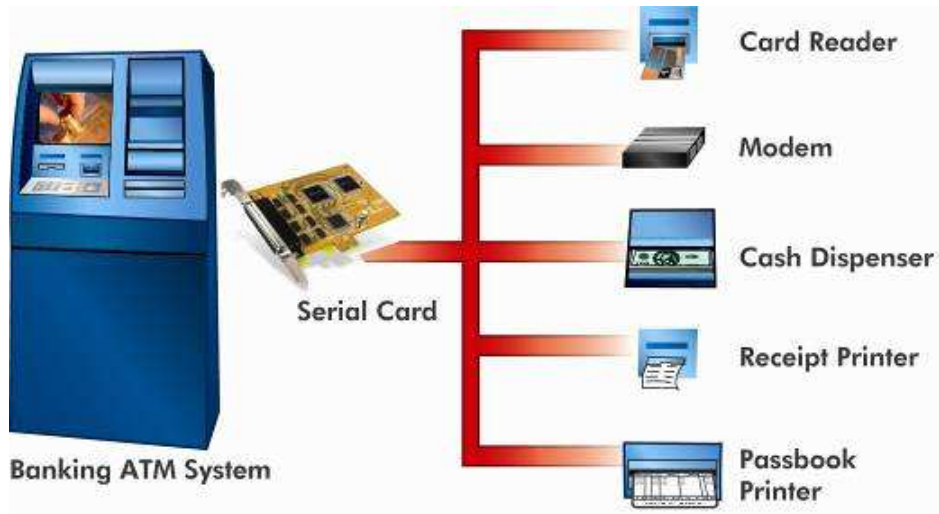
### Environment

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

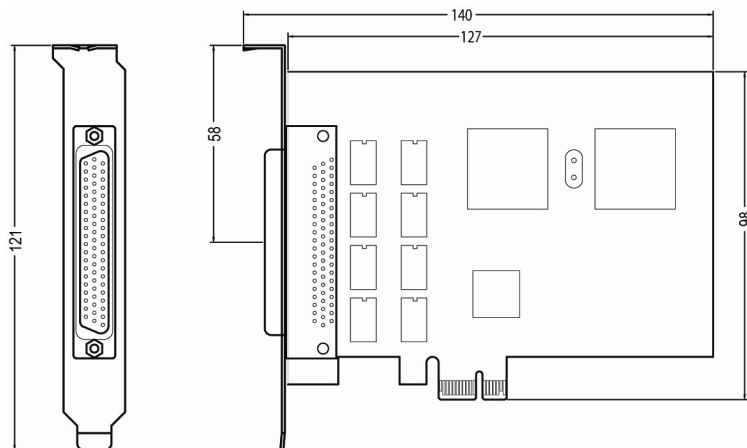
### Dimension

<b>PCB Dimension</b>	127 x 98 mm
<b>Bracket</b>	Standard 121 mm
<b>Bracket Space</b>	1

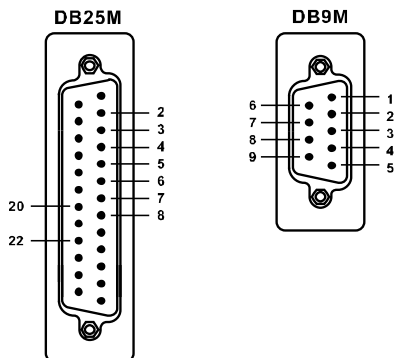
## Application



## 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



## Packing List

### Packing Content

- SER5466A – 8-port RS-232 PCI Express Serial Board
- Quick Installation Guide
- Software CD ROM
- DB62 to 8-port DB9/DB25 Male Connection Cable, 40 cm



### Optional Accessories

- DB62 to 8-port DB9 Male Connection Cable, 40/100 cm

**Part Number:** 1WDB-62M04009D8000



- DB62 to 8-port DB25 Male Connection Cable, 40/100 cm

**Part Number:** 1WDB-62M04025D800A



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	115.2 kbps	-	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			
					-		-	SER5066AL		
		Mini SCSI 68 Female			-	Low profile	SER5066U			
					-		-	SER5066UL		
		5x2 Pin Header			-	Standard	SER5066H			
					-		-	SER5066HL		
		DB62 Female			921.6Kbps	±15KV	-	Low profile	SER5066UH	
							-		-	SER5066UHL
	Mini SCSI 68 female	-	Standard	SER5056A						
		-		-			SER5056P			
	5x2 Pin Header	115.2 Kbps	±2KV	-			Low profile	SER5056AL		
				-				-	SER5056PL	
	DB44 Female			921.6Kbps			±15KV	-	Standard	SER5056U
								-		-
	5x2 Pin Header	-	Low profile		SER5056H					
		-			-	SER5056HL				
	DB44 Female	-	Standard		SER5056PH					
		-			-	SER5056UH				
	5x2 Pin Header	-	Low profile		SER5056UHL					
		-			-	SER5056PHL				
	2	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5037A			
					-		-	SER5037P		
					5x2 Pin Header	-	Low profile	SER5037U		
						-		-	SER5037AL	
		DB44 Female	921.6Kbps	±15KV	-	Standard	SER5037PH			
					-		-	SER5037UH		
		5x2 Pin Header			-	Low profile	SER5037HL			
					-		-	SER5037PHL		
		DB9 Male			115.2Kbps	±2KV	-	Standard	SER5027A	
							-		-	SER5027P
							5x2 Pin Header	-	Low profile	SER5027U
								-		-
	DB9 Male	921.6Kbps	±15KV	-	Standard	SER5027PH				
				-		-	SER5027UH			
	5x2 Pin Header			-	Low profile	SER5027HL				
				-		-	SER5027PHL			
	1	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5027A			
					-		-	SER5027P		
					5x2 Pin Header	-	Low profile	SER5027U		
						-		-	SER5027AL	
	DB9 Male	921.6Kbps	±15KV	-	Standard	SER5027PH				
				-		-	SER5027UH			
				5x2 Pin Header	-	Low profile	SER5027HL			
					-		-	SER5027PHL		
	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			