

SER5466H

8-port RS-232 High Speed
PCI Express Serial Board



Introduction

SUNIX SER5466H, 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 SER5466H 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 921.6Kbps.
- 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 ± 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

Interface	RS-232	Signal	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Controller	SUNIX SUN1999 (16C950 UART Compatible)	Baud rate	50bps ~921.6Kbps
BUS	PCI Express one lane (x1)	Stop bit	1, 1.5, 2
No. of Port	8-port	Parity	even, odd, none, mark, space
IRQ & IO	Assigned by System	Flow Control	None, Xon/Xoff, RTS/CTS
FIFO	128byte Hardware	PCB Connector	DB62 Female
Protection	±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

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)

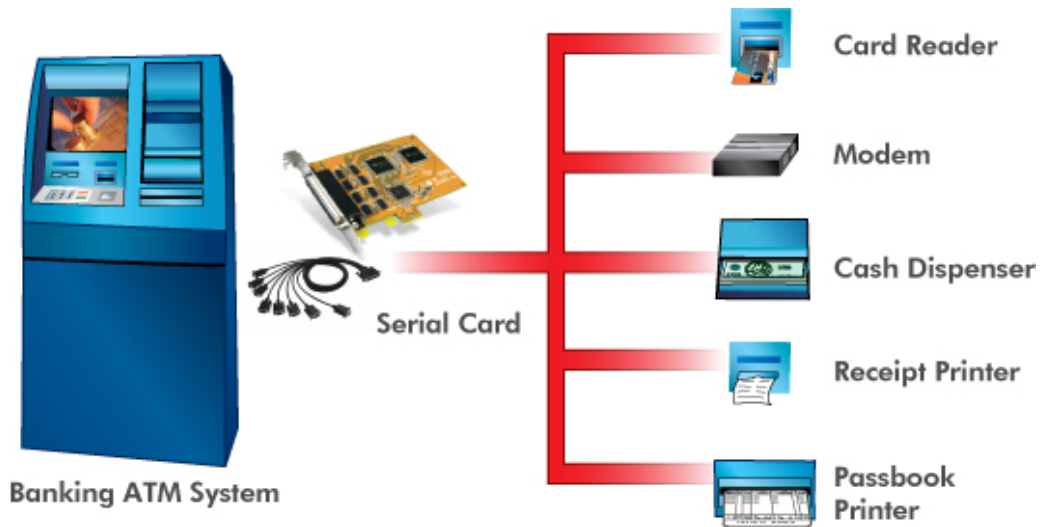
Environment

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)

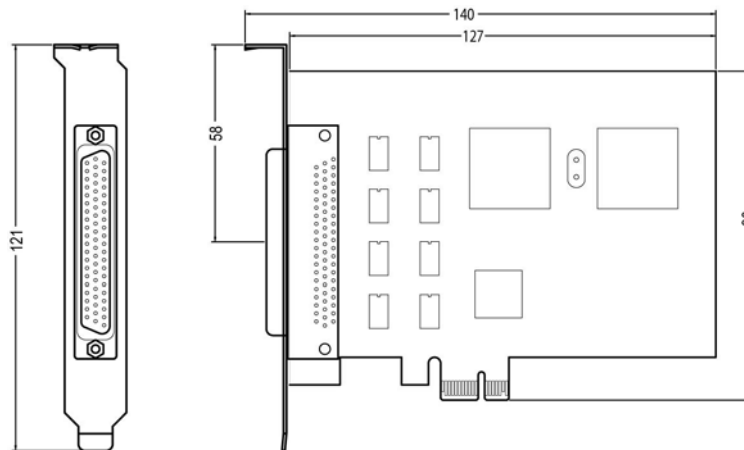
Dimension

PCB Dimension	127 x 98 mm
Bracket	Standard 121 mm
Bracket Space	1

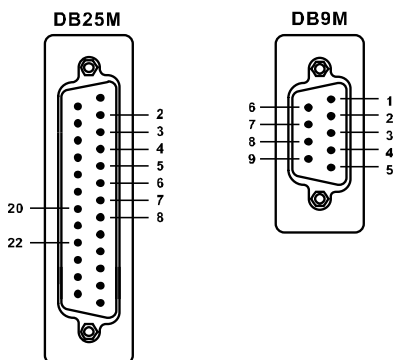
Application



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



Packing List

Packing Content

- SER5466H – 8-port RS-232 High Speed 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 ports 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	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		-	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	-		Low profile	SER5056AL
		5x2 Pin Header			-	Standard	SER5056U				
					-		-	Low profile	SER5056UL		
		DB44 Female			921.6Kbps	±15KV	-		Standard	SER5056H	
							5V/12V	-		Low profile	SER5056HL
	5x2 Pin Header	-	Standard	SER5056PH							
		-		-			Low profile	SER5056PHL			
	2	DB9 Male	115.2Kbps	±2KV				-	Standard	SER5037A	
							5V/12V	-		Low profile	SER5037P
		5x2 Pin Header			-	Standard	SER5037U				
					-		-	Low profile	SER5037AL		
		DB44 Female			921.6Kbps	±15KV	-		Standard	SER5037PH	
							5V/12V	-		Low profile	SER5037UH
	5x2 Pin Header	-	Standard	SER5037HL							
		-		-			Low profile	SER5037PHL			
	1	DB9 Male	115.2Kbps	±2KV				-	Standard	SER5027A	
							5V/12V	-		Low profile	SER5027P
		5x2 Pin Header			-	Standard	SER5027U				
					-		-	Low profile	SER5027AL		
		DB9 Male			921.6Kbps	±15KV	-		Standard	SER5027PH	
							5V/12V	-		Low profile	SER5027UH
	5x2 Pin Header	-	Standard	SER5027HL							
		-		-			Low profile	SER5027PHL			
	Express Card	4	DB44 Female	921.6Kbps				±15KV	-	34mm	ECS4000
							2		-		34mm
		1			DB9 Male	-	34mm		ECS1000		
						-			-	-	-
CardBus		4			DB44 Female	115.2Kbps	±15KV		-	54mm	CBS4000
									2		-
	1	DB9 Male	-	54mm				CBS1000			