

## AUSER5466A

8-port RS-232 PCI Express  
Serial Board



### Introduction

AUSER5466A, 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 the PCI Express serial board, users can add eight serial ports to their system, allowing them to use serial devices further. AUSER5466A card has 128-bytes onboard FIFO buffer and compatible with 16C950 UART specification. It is designed with UART controller, SUN1999 and as well built with many of 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>	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 <input type="checkbox"/> Microsoft Client: XP/Vista/7 (X86/X64) <input type="checkbox"/> Microsoft Server: 2000/2003/2008 (X86/X64)

### Environment

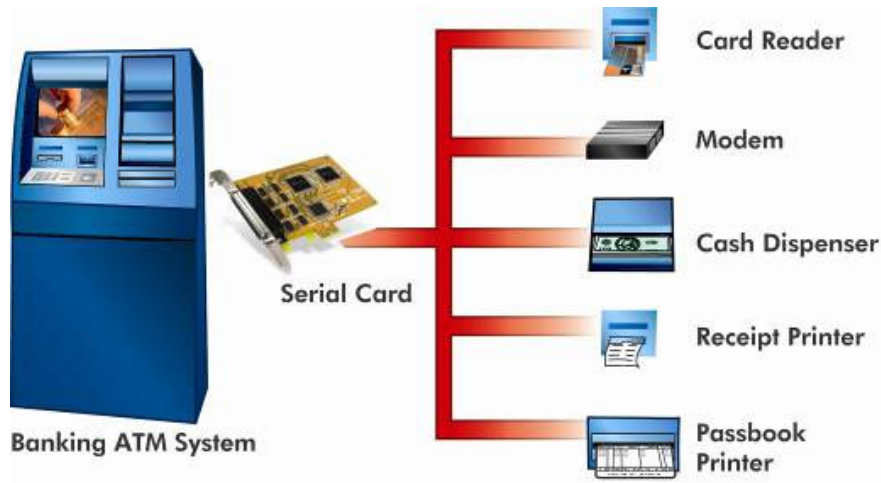
<b>Operation Temperature</b>	0 to 60°C (32 to 140°F)
<b>Operation Humidity</b>	5 to 95% RH
<b>Storage Temperature</b>	-20 to 85°C (-4 to 185°F)

### Dimension

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



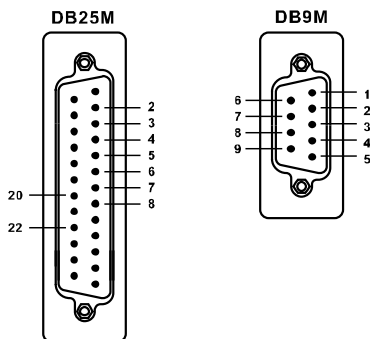
Application



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

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### 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

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- 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		
					-		Low profile	SER5066AL	
		Mini SCSI 68 Female			-	Standard		SER5066U	
					-		Low profile	SER5066UL	
		5x2 Pin Header			921.6Kbps	-		Standard	SER5066H
						-	Low profile		SER5066HL
		DB62 Female			115.2 Kbps	-		Standard	SER5066U
						-	Low profile		SER5066UH
	Mini SCSI 68 female	921.6Kbps	-	Standard	SER5066UHL				
			-		Low profile	SER5066UHL			
	4	DB44 Female	115.2 Kbps	±2KV		-	Standard	SER5056A	
					5V/12V	-		SER5056P	
					5x2 Pin Header	-	Low profile	SER5056AL	
						5V/12V		-	SER5056PL
		DB44 Female	921.6Kbps		-	Standard	SER5056U		
					-		Low profile	SER5056UL	
					5x2 Pin Header	±15KV		-	Standard
							-	Low profile	
	2	DB9 Male	115.2Kbps	±2KV	5V/12V	Standard	SER5056PH		
					-		SER5056PH		
					5x2 Pin Header	-	Low profile	SER5056UH	
						-		SER5056UH	
		DB44 Female	921.6Kbps		-	Standard	SER5056UHL		
					5V/12V		-	SER5056PHL	
					5x2 Pin Header	±15KV	-	Standard	SER5037A
							5V/12V		-
	DB9 Male	115.2Kbps	-	Low profile	SER5037U				
			-		SER5037AL				
			5x2 Pin Header	-	Standard	SER5037PL			
				-		SER5037UL			
	1	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5037H		
					5V/12V		-	SER5037PH	
5x2 Pin Header					-	Low profile	SER5037UH		
					-		SER5037HL		
DB9 Male		921.6Kbps	-		Standard	SER5037PHL			
			5V/12V			-	SER5037PHL		
			5x2 Pin Header		±15KV	-	Standard	SER5027A	
						5V/12V		-	SER5027P
DB9 Male	115.2Kbps	-	Low profile	SER5027U					
		-		SER5027AL					
		5x2 Pin Header	-	Standard	SER5027PL				
			-		SER5027UL				
4	DB44 Female	921.6Kbps	±15KV	-	Standard	SER5027H			
				5V/12V		-	SER5027PH		
				DB9 Male	-	Low profile	SER5027UH		
					-		SER5027HL		
	DB9 Male	115.2Kbps		-	Standard	SER5027PHL			
				5V/12V		-	SER5027PHL		
				5x2 Pin Header	±15KV	-	Standard	SER5027A	
						5V/12V		-	SER5027P
DB9 Male	115.2Kbps	-	Low profile	SER5027U					
		-		SER5027AL					
5x2 Pin Header	921.6Kbps	-	Standard	SER5027PL					
		-		SER5027UL					
DB9 Male	115.2Kbps	-	Low profile	SER5027H					
		-		SER5027PH					
5x2 Pin Header	921.6Kbps	-	Standard	SER5027UH					
		-		SER5027HL					
DB9 Male	115.2Kbps	-	Low profile	SER5027PHL					
		-		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		