

SER5066A

8-port RS-232 Universal PCI
Serial Board



Introduction

SUNIX SER5066A, Universal PCI serial communication board, allows users to add or expand eight 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 SER5066A 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.
- 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
Controller	SUNIX SUN1999 (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	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	±2KV ESD protection for each signal Human Body Model (HBM)		

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)

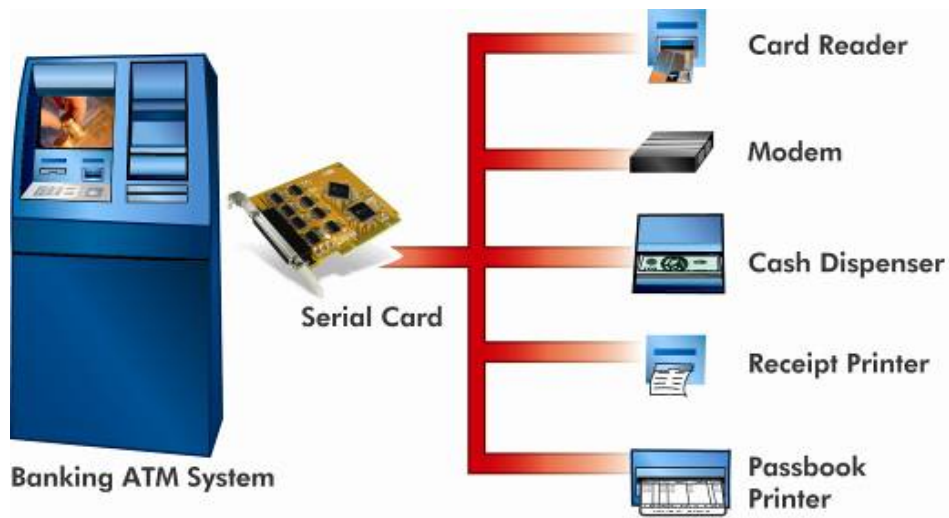
Environment

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)

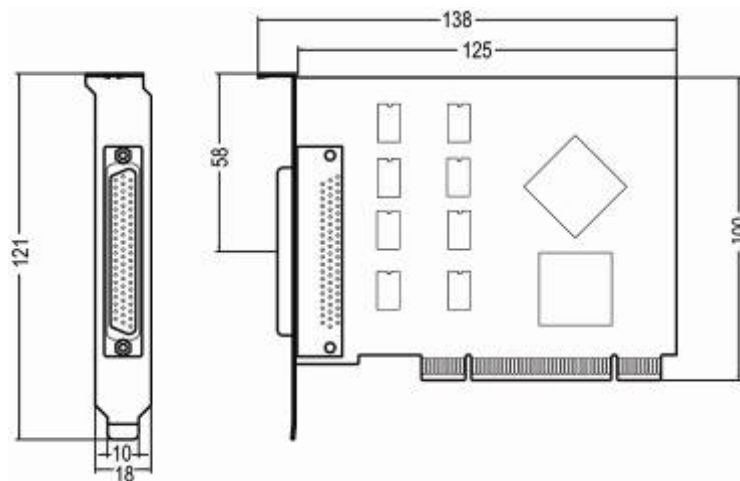
Dimension

PCB Dimension	125 x 100 mm
Bracket	Standard 121 mm
Bracket Space	1

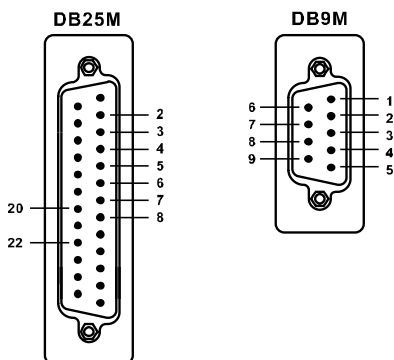
Application



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

- SER5066A – 8-port RS-232 Universal PCI 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		-
			-		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		-
		DB44 Female	-		Low profile	SER5437AL	
			5V/12V			-	SER5437PL
		DB9 Male	921.6Kbps		-	Standard	SER5437H
					5V/12V		-
DB44 Female	-	Low profile	SER5437HL				
	5V/12V		-	SER5437PHL			
PCI	8	DB62 Female	115.2 Kbps	±2KV	-	Standard	SER5066A
					-		Low profile
		Mini SCSI 68 Female			-	Standard	
					-		Low profile
		5x2 Pin Header			-	Standard	
					-		Low profile
	DB62 Female	921.6Kbps	±15KV	-	Standard	SER5066UH	
				-		Low profile	SER5066UHL
	Mini SCSI 68 female			-	Standard		SER5056A
				-		Low profile	SER5056AL
	5x2 Pin Header			-	Standard		SER5056U
				-		Low profile	SER5056UL
	4	DB44 Female	115.2 Kbps	±2KV	5V/12V		Standard
					-	Low profile	
		5x2 Pin Header	-	Standard	SER5056U		
			-		Low profile	SER5056UL	
		DB44 Female	921.6Kbps	±15KV		-	Standard
					-	Low profile	
	5x2 Pin Header	-			Standard		SER5056PH
		-				Low profile	SER5056PHL
	DB44 Female	-			Standard		SER5037A
		-				Low profile	SER5037AL
	2	DB9 Male	115.2Kbps	±2KV	5V/12V		Standard
					-	Low profile	
		5x2 Pin Header	-	Standard	SER5037AL		
			-		Low profile	SER5037PL	
		DB9 Male	921.6Kbps	±15KV		-	Standard
					-	Low profile	
	5x2 Pin Header	-			Standard		SER5037UH
		-				Low profile	SER5037HL
	DB44 Female	-			Standard		SER5037PHL
		-				Low profile	SER5027A
	1	DB9 Male	115.2Kbps	±2KV	5V/12V		Standard
					-	Low profile	
		5x2 Pin Header	-	Standard	SER5027AL		
			-		Low profile	SER5027PL	
DB9 Male		921.6Kbps	±15KV	-		Standard	SER5027UL
				-	Low profile		SER5027H
5x2 Pin Header	-			Standard		SER5027PH	
	-				Low profile	SER5027UH	
DB9 Male	-			Standard		SER5027HL	
	-				Low profile	SER5027PHL	
5x2 Pin Header	-	Standard	SER5027UHL				
	-		Low profile	SER5027PHL			
Express Card	4	DB44 Female		921.6Kbps	±15KV	-	34mm
	2		-			34mm	ECS2000
	1		-			34mm	ECS1000
CardBus	4	DB44 Female	115.2Kbps	±15KV	-	54mm	CBS4000
	2				-	54mm	CBS2000
	1				-	54mm	CBS1000