

SER5066H

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



Introduction

SUNIX SER5066H, 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 SER5066H 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.
- 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 ± 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	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	±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

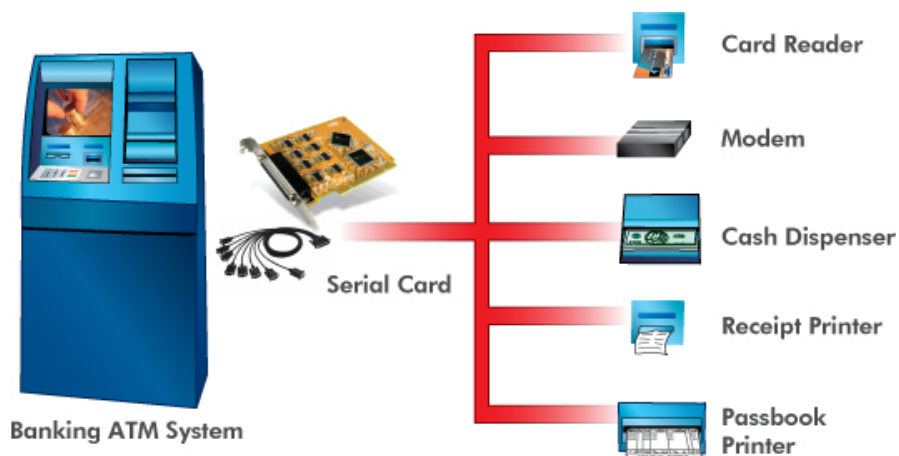
Operation Temperature	0 to 60°C (32 to 140°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

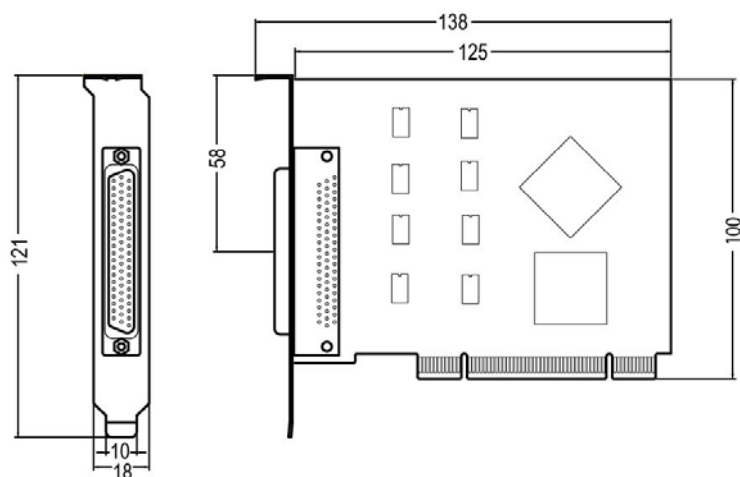
PCB Dimension	125 x 100 mm
Bracket	Standard 121 mm
Bracket Space	1



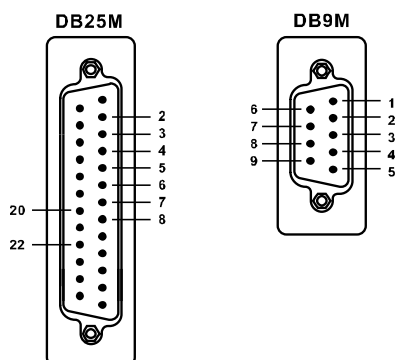
Application



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

- SER5066H – 8-port RS-232 High Speed 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 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
					-	Low profile	SER5456AL
					5V/12V		SER5456PL
		DB44 Female	921.6Kbps		-	Standard	SER5456H
					5V/12V		SER5456PH
					-	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			
-			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	5V/12V	Standard	SER5056A
					-	Low profile	SER5056P
					5V/12V		SER5056AL
					-	Standard	SER5056PL
		5x2 Pin Header	921.6Kbps	±15KV	-	Standard	SER5056U
					-	Low profile	SER5056UL
					-	Standard	SER5056H
					-	Low profile	SER5056HL
		DB44 Female	921.6Kbps	±15KV	5V/12V	Standard	SER5056PH
		-				SER5056UH	
		-			Low profile	SER5056UHL	
		5V/12V				SER5056PHL	
	2	DB9 Male	115.2Kbps	±2KV	-	Standard	SER5037A
		5x2 Pin Header			5V/12V		SER5037P
		DB44 Female			-	Low profile	SER5037U
		5V/12V				SER5037AL	
		5x2 Pin Header	921.6Kbps	±15KV	-	Low profile	SER5037PL
		-				SER5037UL	
		-			Standard	SER5037H	
		5V/12V				SER5037PH	
		-			Low profile	SER5037UH	
		-				SER5037HL	
		5V/12V				SER5037PHL	
		-				SER5027A	
1	DB9 Male	115.2Kbps	±2KV	5V/12V	Standard	SER5027P	
	5x2 Pin Header			-		SER5027U	
	DB9 Male			-	Low profile	SER5027AL	
	5x2 Pin Header			5V/12V		SER5027PL	
	DB9 Male	921.6Kbps	±15KV	-	Low profile	SER5027UL	
	-				SER5027H		
	5V/12V			Standard	SER5027PH		
	-				SER5027UH		
Express Card	4	DB44 Female	921.6Kbps	±15KV	-	34mm	ECS4000
	2				-	34mm	ECS2000
	1				DB9 Male	-	34mm
CardBus	4	DB44 Female	115.2Kbps	±15KV	-	54mm	CBS4000
	2				-	54mm	CBS2000
	1				DB9 Male	-	54mm