

MIO6469H

1-port RS-232 & 1-port Parallel
High Speed PCI Express
Multi-I/O Board



Introduction

The majority of today's motherboards are not equipped with any RS-232 or Parallel port. With SUNIX MIO6469H Multi I/O board, users can expand one RS-232 COM and one IEEE1284 LPT ports to their system, allowing them to use serial and parallel devices further. This board is compatible with PCI Express x1, x2, x4, x8 and x16 lane, allowing the board to be installed in virtually any PC system. SUNIX MIO6469H built-in SUNIX high performance and realizable native PCI Express controller, and as well built with many of SUNIX advanced features and technologies, making it the advanced and high efficient solution for commercial and industrial automation application.

Features

- Expands 1-port RS-232 COM and 1-port IEEE1284 LPT on system
- RS-232 Serial port data communication speeds up to 921.6Kbps.
- With high reliable SUNIX SUN2212 native PCI Express 16C950 UART and IEEE1284 controller.
- Designed to meet PCI Express Base Specification Revision 2.0.
- 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 $\pm 15KV$ ESD protection for all serial signals meets IEC1000-4-2 standard.
- Support IEEE 1284-1994 parallel port standard.
 - ECP(Enhance Capacity Port) / EPP(Enhance Parallel Port)
 - SPP (Standard Parallel Port) / BPP (Bi-direction Parallel Port).
- Plug-n-Play, I/O address and IRQ assigned by system.
- Certified by CE, FCC, RoHS, and Microsoft WHQL approval.
- Support Microsoft Windows, Linux, and DOS.



Specifications

General

Interface	RS-232 and IEEE1284
Controller	SUNIX SUN2212 (16C950 UART Compatible)
BUS	PCI Express Spec 2.0, Single-Lane (x1)
IRQ & IO	Assigned by System

Serial Communication

Interface	RS-232
No. of Port	1-port
FIFO	128byte Hardware
Signal	DCD, TxD, RxD, RTS, CTS, DTR, DSR, GND, RI
Baud rate	50bps ~ 921.6Kbps
Stop bit	1, 1.5, 2
Parity	even, odd, none, mark, space
Flow Control	None, Xon/Xoff, RTS/CTS
Protection	±15KV ESD protection for each signal Human Body Model (HBM) ±15KV IEC1000-4-2 Air Gap Discharge ±8KV IEC1000-4-2 Contact Discharge
PCB Connector	DB9 Male

Parallel Communication

Interface	IEEE1284
No. of Port	1-port
Mode	SPP / ECP / EPP / BPP
FIFO	16byte Hardware
Speed	Maximum 1.8MBps
PCB Connector	DB25 Female

Driver Support

Microsoft Client	XP / Vista / 7 / 8 (X86/X64)
Microsoft Server	2000 / 2003 / 2008 / 2008R2 (X86/X64)
Linux	Linux 2.4.x / 2.6.x /3.x
DOS	DOS



Regulatory Approvals

Hardware	CE EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, VCCI Class B FCC Part 15 Class B, BSMI: CNS13438, C-Tick: CISPR22 AS/NZS, RoHS
Software	Microsoft WHQL Windows Microsoft Client: XP / Vista / 7 / 8 (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)

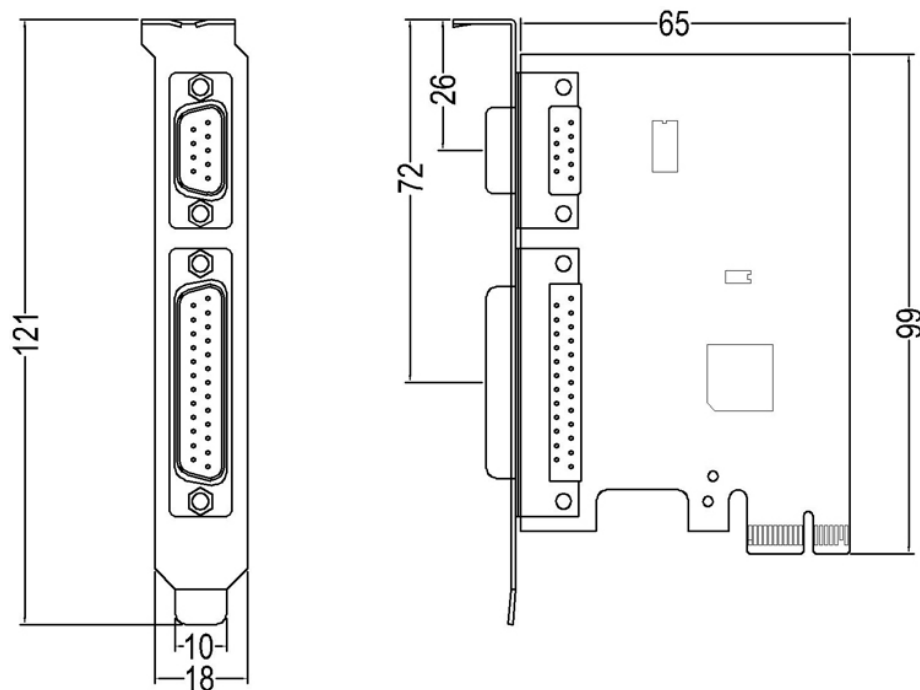
Dimension

PCB Dimension	65 x 99 mm
Bracket	Standard 121 mm
Bracket Space	1

Note:

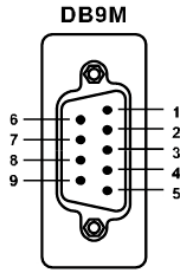
- * LPT port does not support LPT Key Locker Parallel device.
- * LPT port does not support legacy 278/378/3BC ISA address under Microsoft Windows nor Linux operation systems.

Mechanical Drawings (Unit = mm)



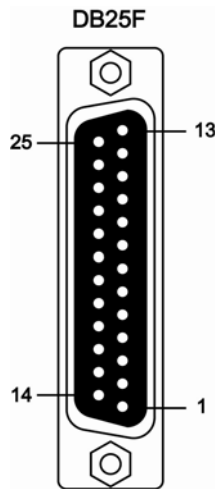
Pin Assignment

Serial



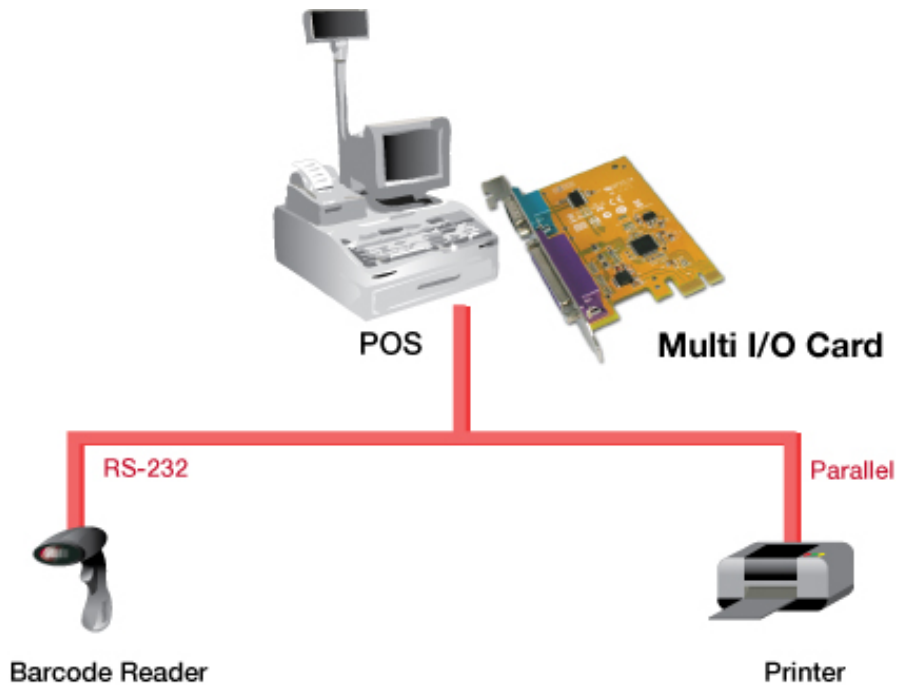
DB9M	PIN
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Parallel



DB25F	PIN	DB25F	PIN
1	STROBE	14	AUTO FEED
2	DATA0	15	ERROR
3	DATA1	16	INT
4	DATA2	17	SELECT INPUT
5	DATA3	18	GND
6	DATA4	19	GND
7	DATA5	20	GND
8	DATA6	21	GND
9	DATA7	22	GND
10	ACKNOWLEDGE	23	GND
11	BUSY	24	GND
12	PAPER EMPTY	25	GND
13	SELECT		

Application



Package

- MIO6469H- 1-port RS-232 & 1-port Parallel High Speed PCI Express Multi-I/O Board.
- Quick Installation Guide.
- Software CD Driver

Optional Accessories

- PCIe holder
Part No.: 13BF-PCIEFIX010000



