

MIO4089AM

2 ports RS-232 & 2 ports Parallel
PCI Board



Introduction

The majority of today's motherboards is not equipped with any RS-232 or parallel port. With SUNIX MIO4089AM Multi I/O board, users can expand 2 RS-232 and 2 IEEE1284 parallel ports to their system, allowing them to use serial and parallel devices further. SUNIX MIO4089AM is compatible with both 32/64-bit PCI architecture supporting 3.3 and 5V Bus, allowing the board to be installed in virtually any PC system. Furthermore, SUNIX MIO4089AM Multi-IO card supports majority of the OS on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Expands 2 ports RS-232 and 2 ports IEEE1284 interface on system.
- Universal PCI compatible with 64/32-bit PCI-X/PCI Bus and 3.3/5V connector key.
- High reliability SUNIX UL7522EQ 16C750 compatible MultiIO controller on-board
- Expands two RS-232 serial ports with communication speeds up to 230.4Kbps.
- 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.
- 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 BIOS.
- Certified by RoHS CE, FCC ClassB approval
- Support DOS, Linux, Microsoft 3.x, 9x, Me, NT, 2000, XP, 2003 and Vista.
- Ready for the Intel® and AMD® 32/64-bit operation system



Specifications

General

Interface: RS-232 and IEEE1284

Controller: SUNIX UL7512EQ
(16C650 UART Compatible)

BUS: Universal PCI 64/32bit 3.3V/5V,
PCI Ver 2.3/2.2/2.1

IRQ & IO: Assigned by system

Serial Communication

Interface: RS-232

No. of Port: 2-port

FIFO: 32byte Hardware

Signal: TxD, RxD, RTS, CTS, DTR, DSR, DCD,
GND, RI

Baud rate: 50~230.4Kbps

Data bit: 5, 6, 7, 8

Stop bit: 1, 1.5, 2

Parity: even, odd, none, mark, space

Flow Control: None, Xon/Xoff, RTS/CTS

Protection: ±15KV 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: 2-port

PCB Connector: DB25 Female

Mode: SPP/ECP/EPP/BPP(PS2)

Speed: Maximum 2.7MBps

FIFO: 16byte Hardware

Driver Support:

Microsoft: 3.1/95/98/NT/ME/2000/XP/2003/Vista (32/64 bit)
/CE5.0/XP Embedded

Linux: Linux 2.4.x / 2.6.x

DOS: DOS

Regulatory Approvals:

Hardware: EN55022 Class B, EN55024, EN61000-3-2,
EN61000-3-3, FCC Part 15 Class B, RoHS

Software: Microsoft WHQL Window XP/Vista

Operation Environment:

Operation Temperature: 0 to 60°C (32 to 140°F)

Operation Humidity: 5 to 95% RH

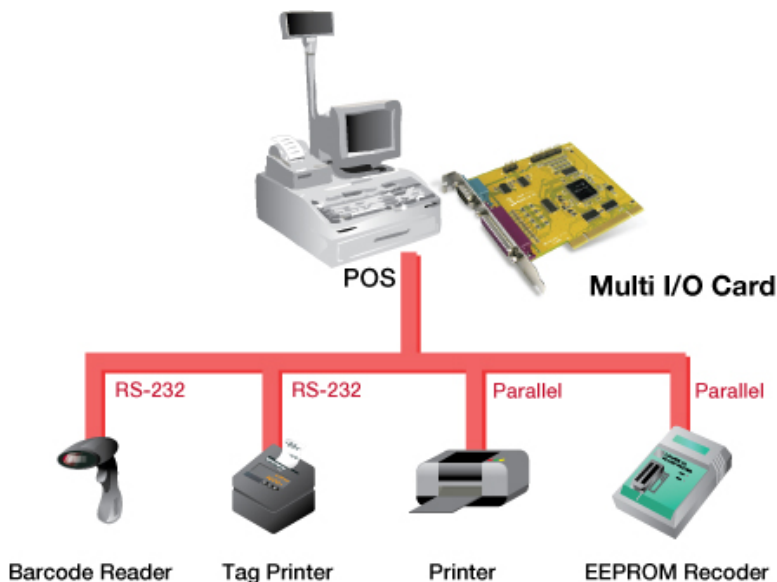
Storage Temperature: -20 to 85°C (-4 to 185°F)

Dimension(Unit = mm):

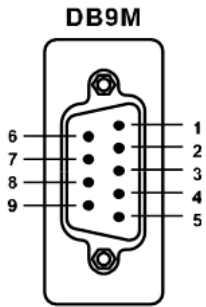
PCB Dimension: 110 x 63

Bracket: Standard 121,

Application

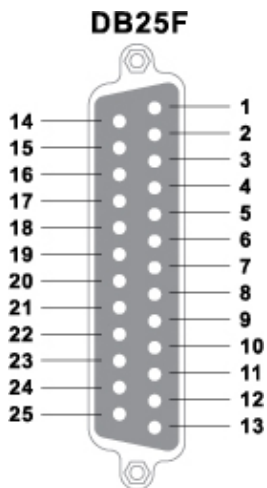


Pin Assignment



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		GND



Packing List

Packing Content

- MIO4089AM- 2 ports RS-232 & 2 ports Parallel PCI Board
- Quick Installation Guide
- DB9M / DB25F flat cable with bracket
- Software CD ROM



Optional Accessories

- Pin Header to DB9 Male & DB25 Female Connector Bracket Set



Order Information

- MIO4089AM 2 ports RS-232 & 2 ports Parallel PCI Board
- MIO4079AM 2 ports RS-232 & 1 ports Parallel PCI Board