

## SER4037A

2 ports RS-232 Universal PCI  
Serial Board



### Introduction

SUNIX SER4037A, Universal PCI serial communication board, allows users to add or expand four 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 SER4037A card has 32-bytes onboard FIFO buffer and compatible with 16C650 UART specification. SUNIX GoldenIO card series is designed with SUNIX UART controller, SUN1889 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 2 independent RS-232 serial ports with communication speeds up to 115.2Kbps.
- High speed SUN1889 16C650 compatible UART controller on-board.
- Compliance with PCI 33MHz Ver 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  $\pm 2$ 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 WQHL approval.
- Support Microsoft Windows, Linux, and DOS.



## Specifications

### Serial Communication

**Interface:** RS-232

**Controller:** SUNIX SUN1889  
(16C650 UART Compatible)

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

**No. of Port:** 2 ports

**IRQ & IO:** Assigned by System

**FIFO:** 32byte Hardware

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

**Baud rate:** 50~115.2Kbps

**Stop bit:** 1, 1.5, 2

**Parity:** even, odd, none, mark, space

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

**Protection:** ±2KV ESD protection for each signal  
Human Body Model (HBM)

**PCB Connector:** DB9 Male

#### Driver Support:

**Windows Client:** Windows XP/Vista/7/8/8.1  
(X86/X64)

**Windows Server:** Windows 2000 / 2003 / 2008 /  
2008 R2 / 2012 / 2012 R2 (X86/X64)

**Windows Embedded:** Windows CE 4.2/5.0/6.0/XP  
Embedded/POSReady 2009/POSReady 7/ Embedded  
System 2009/Embedded Standard 7

**Linux:** Linux 2.4.x / 2.6.x

**Unix:** SCO Unixware 7.1.3, SCO OpenServer 5.06/5.0.7/6.0

**OS2:** IBM OS2 WARP 3/4

**DOS:** DOS

#### Regulatory Approvals:

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

**Software:** Microsoft WHQL Windows

◆ Windows Client: XP/Vista/7/8/8.1 (X86/X64)

◆ Windows Server: 2000 / 2003 / 2008 / 2008 R2 / 2012 /  
2012 R2 (X86/X64)

#### Operation Environment:

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

**Operation Humidity:** 5 to 95% RH

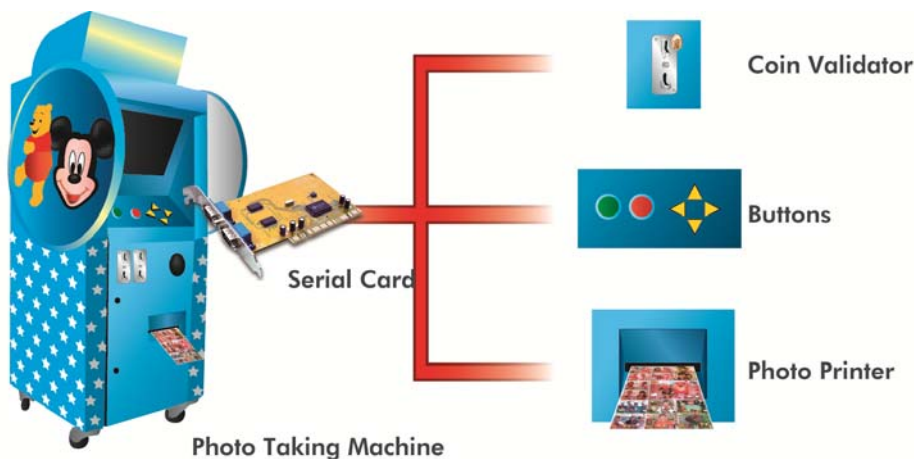
**Storage Temperature:** -20 to 85°C (-4 to 185°F)

#### Dimension(Unit = mm):

**PCB Dimension:** 119.91 x 77.47

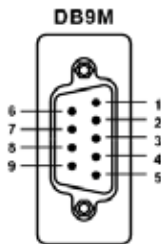
**Bracket:** Std. 121

## Application





## Pin Assignment



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

## Packing List

### Packing Content

- SER4037A - 2 ports RS-232 PCI Serial Board
- Quick Installation Guide
- Software CD ROM



### Packing

- QTY: 50 Packages/Carton
- N.W: 10.5 Kg (no cable)
- G.W: 11.9 Kg (no cable)
- MEAS: 0.081 CUFT
- Carton Size: 76.5x44x24 cm

### Order Information

- 4037A 2 ports RS-232 Universal PCI Serial Standard Board
- 4037AL 2 ports RS-232 Universal PCI Serial Low Profile Board
- 4037D 2 ports RS-232 Universal PCI Serial ReMap Board
- 4036A3V 2 ports RS-232 Universal PCI Serial Voltage Board
- 4037U 2 ports RS-232 Universal PCI Serial Embedded Board