

# PAR6408AL

1-port IEEE1284 Parallel  
PCI Express Low Profile Board



## Introduction

SUNIX PAR6408AL IEEE1284 Parallel communication board meets the PCI Express Base Specification Revision 2.0. It is compatible with PCI Express x1, x2, x4, x8 and x16 lane bus, allowing it to be installed in any slim size PC-based system with low Profile bracket structure. With SUNIX PAR6408AL IEEE1284 Parallel board, users can expand single parallel LPT port to their system to use parallel devices further. It is ideal for printers, IC programmers, ZIP Drives, or other Parallel devices\*. SUNIX PAR6408AL 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 single IEEE1284 Parallel LPT port on system.
- High reliable SUNIX SUN2212 native PCI Express IEEE1284 controller on-board.
- Designed to meet PCI Express Base Specification Revision 2.0.
- Full single-lane (or x1) PCI Express throughput.
- 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.
- Low profile bracket design idea for slim or portable PC.
- Certified by CE, FCC, RoHS, and Microsoft WHQL approval.
- Support Microsoft Windows, Linux, and DOS.

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.



## Specifications

### General

<b>Interface</b>	IEEE1284
<b>Controller</b>	SUNIX SUN2212
<b>BUS</b>	PCI Express Spec 2.0, Single-Lane (x1)
<b>IRQ &amp; IO</b>	Assigned by System

### Parallel Communication

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

### Driver Support

<b>Windows Client</b>	Windows XP/Vista/7/8/8.1 (X86/X64)
<b>Windows Server</b>	Windows 2000 / 2003 / 2008 / 2008 R2 / 2012 / 2012 R2 (X86/X64)
<b>Windows Embedded</b>	Windows CE 4.2/5.0/6.0/XP Embedded/POSReady 2009/POSReady 7/Embedded System 2009/Embedded Standard 7
<b>Linux</b>	Linux 2.4.x / 2.6.x / 3.x
<b>DOS</b>	DOS

### Regulatory Approvals

<b>Hardware</b>	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
<b>Software</b>	Microsoft WHQL Windows <ul style="list-style-type: none"> <li>◆ Windows Client: XP/Vista/7/8/8.1 (X86/X64)</li> <li>◆ Windows Server: 2000 / 2003 / 2008 / 2008 R2 / 2012 / 2012 R2 (X86/X64)</li> </ul>

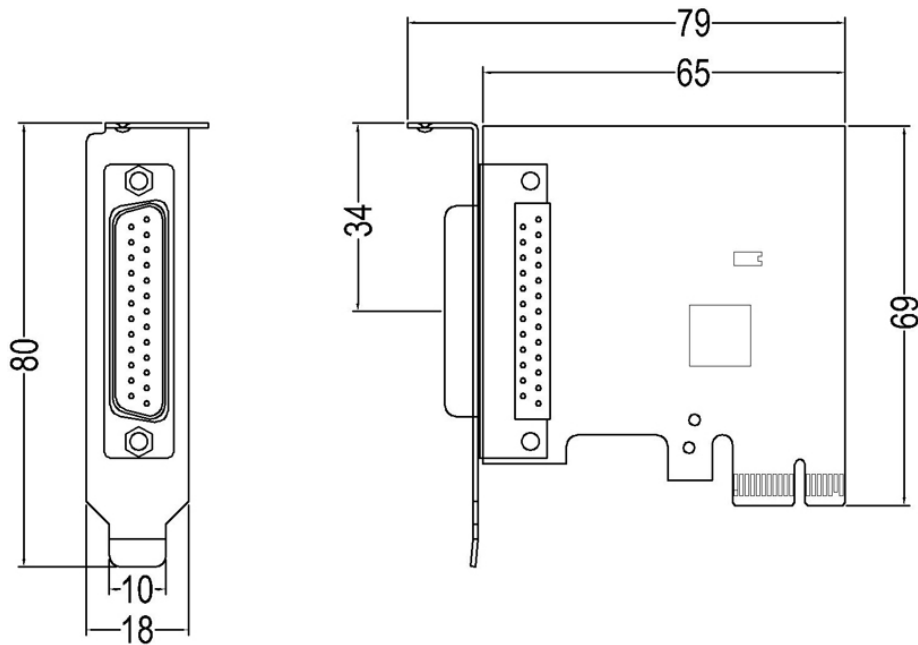
### Environment

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

### Dimension

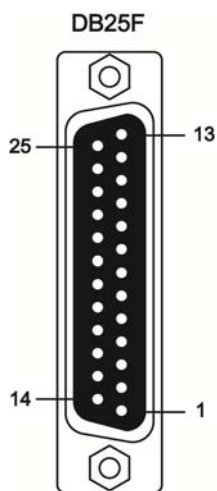
<b>PCB Dimension</b>	65 x 69 mm
<b>Bracket</b>	Low Profile 80 mm

## Mechanical Drawings (Unit = mm)



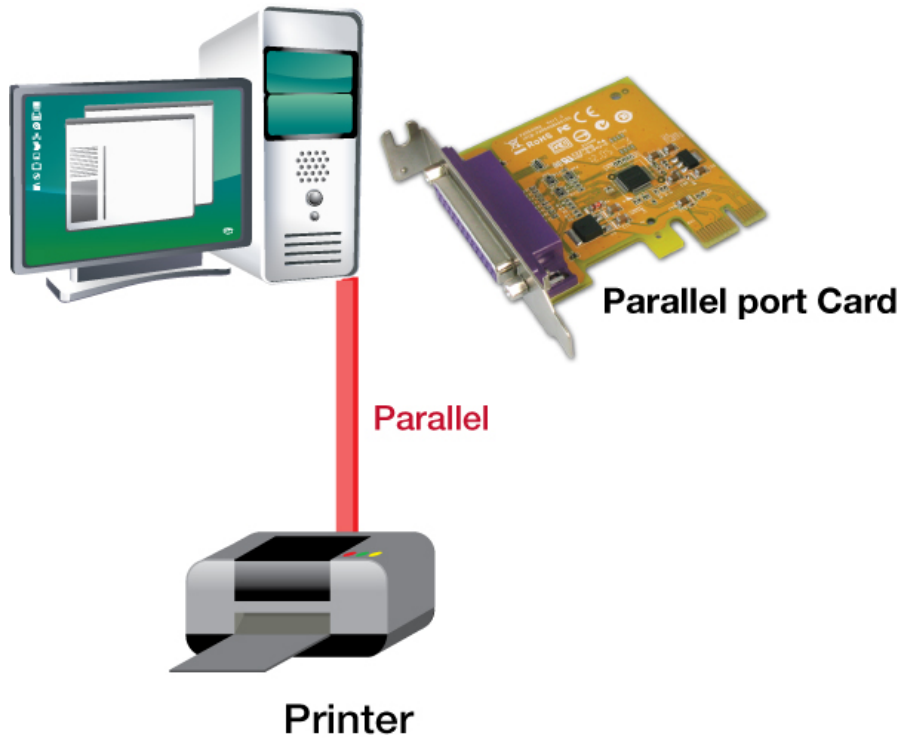
## Pin Assignment

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

- PAR6408AL – 1-port Parallel PCI Express Low Profile Board
- Quick Installation Guide
- Software CD Driver

## Order Information

Bus	Port	Board Connector	Bracket	Model NO.
PCI Express	2	DB25 Female & 13 x 2 Pin Header	Standard	PAR5418A
		DB25 Female & 13 x 2 Pin Header	Low Profile	PAR5418AL
	1	DB25 Female	Standard	PAR6408A
			Low Profile	PAR6408AL
PCI	2	DB25 Female & 13 x 2 Pin Header	Standard	PAR5018A
		DB25 Female & 13 x 2 Pin Header	Low Profile	PAR5018AL
	1	DB25 Female	Standard	PAR5008A
			Low Profile	PAR5008AL
Express Card	1	DB25 Female	34mm	ECP1000

### Headquarters

#### Taiwan

##### Sunix Co., Ltd.

Tel : +886-2-8913-1987

Fax : +886-2-8913-1986

Website : [www.sunix.com.tw](http://www.sunix.com.tw)

E-mail : [info@sunix.com.tw](mailto:info@sunix.com.tw)

#### China

##### Shanghai Office

Tel : +86-21-6469-1670

Fax : +86-21-6468-8346

Website : [www.sunix.com.cn](http://www.sunix.com.cn)

E-mail : [info@sunix.com.cn](mailto:info@sunix.com.cn)

##### Beijing Office

Tel : +86-010-65308421

Fax : +86-010-62653864

##### Shenzhen Office

Tel : +86-755-33500418

#### Germany

##### Sunix Vertriebs GmbH

Tel : +49(0)6146-60 1345

Fax : +49(0)6146-60 1346

Website : [www.sunix-europe.com](http://www.sunix-europe.com)

E-mail : [info@sunix-gmbh.de](mailto:info@sunix-gmbh.de)

#### Factory

##### Kunshan Factory

Tel : +86-512-5745-6488

Fax : +86-512-5745-6193

Website : [www.sunix.com.cn](http://www.sunix.com.cn)

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