

# M2S6427E

1 port RS-232 PCI-Express Serial Card  
M.2 (2230 Type, Key A+E)  
With 180° connector



## Introduction

SUNIX M2S6427E, RS-232 PCI-Express Serial M.2 Card, allows users to expand one RS-232 port on M.2 (Type 2230 with Key-A or Key-E based PC-based system. The RS-232 COM port can be attached to a housing or slot bracket. Each serial port achieves data rates up to 460.8Kbps and utilizes UART with an on-chip 128-bytes hardware FIFO buffer for reliable, high-speed serial I/O. Each COM port is provided with  $\pm 15\text{KV}$  IEC61000-4-2 ESD protection, and it is the best serial communicating solution for commercial and industrial automation applications.

## Features

- Suitable for M.2 slot Type 2230 with Key-A or Key-E based on PCI Express communication.
- Expands one (1) independent RS-232 serial port with communication speeds up to 460.8Kbps.
- With high reliable SUNIX SUN2212 native PCI Express UART controller.
- Designed to meet PCI Express Base Specification Revision 2.0.
- On-chip hardware auto flow control to guarantee no data loss.
- Ultra low power consumption design for Green Environment.
- Build-in 15KV ESD protection for all serial signals meets IEC-61000-4-2 standard.
- Plug-n-Play, I/O address and IRQ assigned by BIOS.
- Certified by UKCA, CE, FCC, VCCI, BSMI, CE(RoHS), and Microsoft WHQL approval.

## Specifications

### Serial Communication

<b>Interface</b>	RS-232	<b>Baud rate</b>	50bps ~ 460.8Kbps
<b>Controller</b>	SUNIX SUN2212	<b>Stop bit</b>	1, 1.5, 2
<b>BUS</b>	PCI Express 2.0 x 1(single lan) M.2 Key A+E Male	<b>Parity</b>	even, odd, none, mark, space
<b>No. of Port</b>	1-port	<b>Flow Control</b>	Xon/Xoff (software)
<b>IRQ &amp; IO</b>	Assigned by System	<b>FIFO</b>	128byte Hardware
<b>Signal</b>	DCD, TxD, RxD, RTS, CTS, DTR, DSR, GND, RI		
<b>Protection</b>	±15KV Air / ±8KV Contact		
<b>PCB Connector</b>	1 pcs x WAFER 2x5P pitch 1.0mm (180°)		
<b>Cable</b>	1 pcs x serial RS-232 D-Sub 9 pin male with nuts on cable		

### Driver Support

<b>Microsoft Client</b>	XP / Vista / 7 / 8.x / 10 (X86/X64) / 11
<b>Microsoft Server</b>	2003 / 2008 / 2012 / 2016 / 2019 / 2022 (X64)
<b>Linux</b>	Linux 2.x / 3.x / 4.x / 5.x / 6.x

### Certifications

<b>EMC</b>	UKCA, CE, FCC, VCCI, BSMI
<b>Green</b>	CE(RoHS)

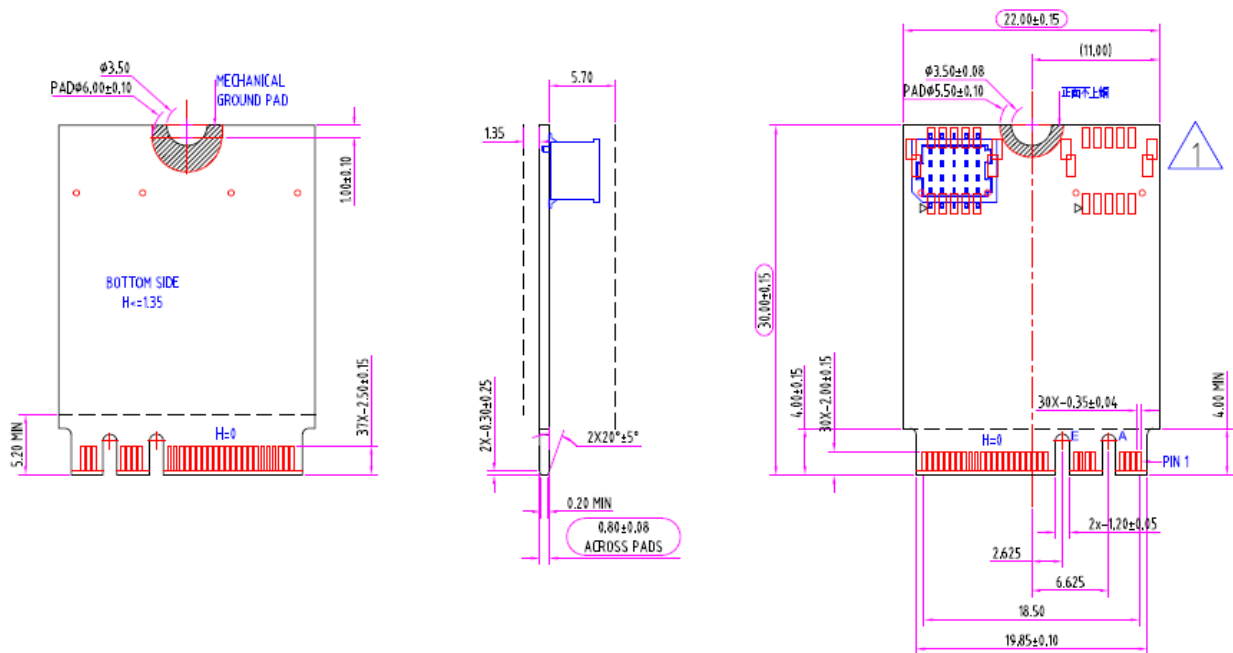
### Environment

<b>Operation Temperature</b>	0 to 70°C (32 to 158°F)
<b>Operation Humidity</b>	5 to 95% RH
<b>Storage Temperature</b>	-40 to 85°C (-40 to 185°F)

### Dimension

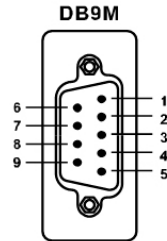
<b>PCB Dimension</b>	22 x 30 mm
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# Mechanical Drawing (Unit = mm)



## Pin Assignment

### ■ RS-232



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

## Package

- M2S6427E - 1 port RS-232 PCI-Express Serial Card M.2 (2230Type, Key A+E)
- Quick Installation Guide
- Serial RS-232 D-Sub 9-pin male with nuts on cable, 30 cm x 1pcs

