

M2S6437E

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



Introduction

SUNIX M2S6437E, 2 ports RS-232 PCI-Express Serial M.2 Card, allows users to expand two RS-232 ports on M.2 (Type 2230 with Key-A or Key-E based PC-based system. The RS-232 COM ports 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 2 independent RS-232 serial ports 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

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

Driver Support

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

Certifications

EMC	UKCA, CE, FCC, VCCI, BSMI
Green	CE(RoHS)

Environment

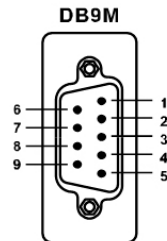
Operation Temperature	0 to 70°C (32 to 158°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-40 to 85°C (-40 to 185°F)

Dimension

PCB Dimension	22 x 30 mm
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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

- M2S6437E - 2 ports 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 2pcs

