



M2S6456M

4 ports RS-232 PCI-Express Serial Card
M.2 (2242/2260/2280 Type, Key B+M)
With 180° connector



Introduction

SUNIX M2S6456M, 4 ports RS-232 PCI-Express Serial M.2 Card, allows users to expand four RS-232 ports on M.2 (Type 2242/2260/2280 adjustable) with Key-M or Key-B 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 16C950 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 2242/2260/2280 adjustable with Key-M or Key-B based on PCI Express communication.
- Expands 4 independent RS-232 serial ports with communication speeds up to 460.8Kbps.
- With high reliable SUNIX SUN2410 native PCI Express 16C950 UART controller.
- Designed to meet PCI Express Base Specification Revision 1.1.
- 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 CE, FCC, VCCI, BSMI, RoHS, and Microsoft WHQL approval.

Specifications

Serial Communication

Interface	RS-232	Baud rate	50bps ~ 460.8Kbps
Controller	SUNIX SUN2410 (16C950 UART Compatible)	Stop bit	1, 1.5, 2
BUS	PCI Express x 1(single lan) M.2 Key B+M Male	Parity	even, odd, none, mark, space
No. of Port	4-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	4 pcs x WAFER 2x5P pitch 1.0mm (180°)		
Cable	4 pcs x serial RS-232 D-Sub 9 pin male with nuts on cable		

Driver Support

Microsoft Client	10 (X86/X64) / 11
Microsoft Server	2022
Linux	Linux 2.x / 3.x / 4.x / 5.x / 6.x

Regulatory Approvals

Hardware	CE/ FCC / VCCI / BSMI
Software	Microsoft WHQL Windows Microsoft Client: 10 (X86/X64) / 11 Microsoft Server: 2022

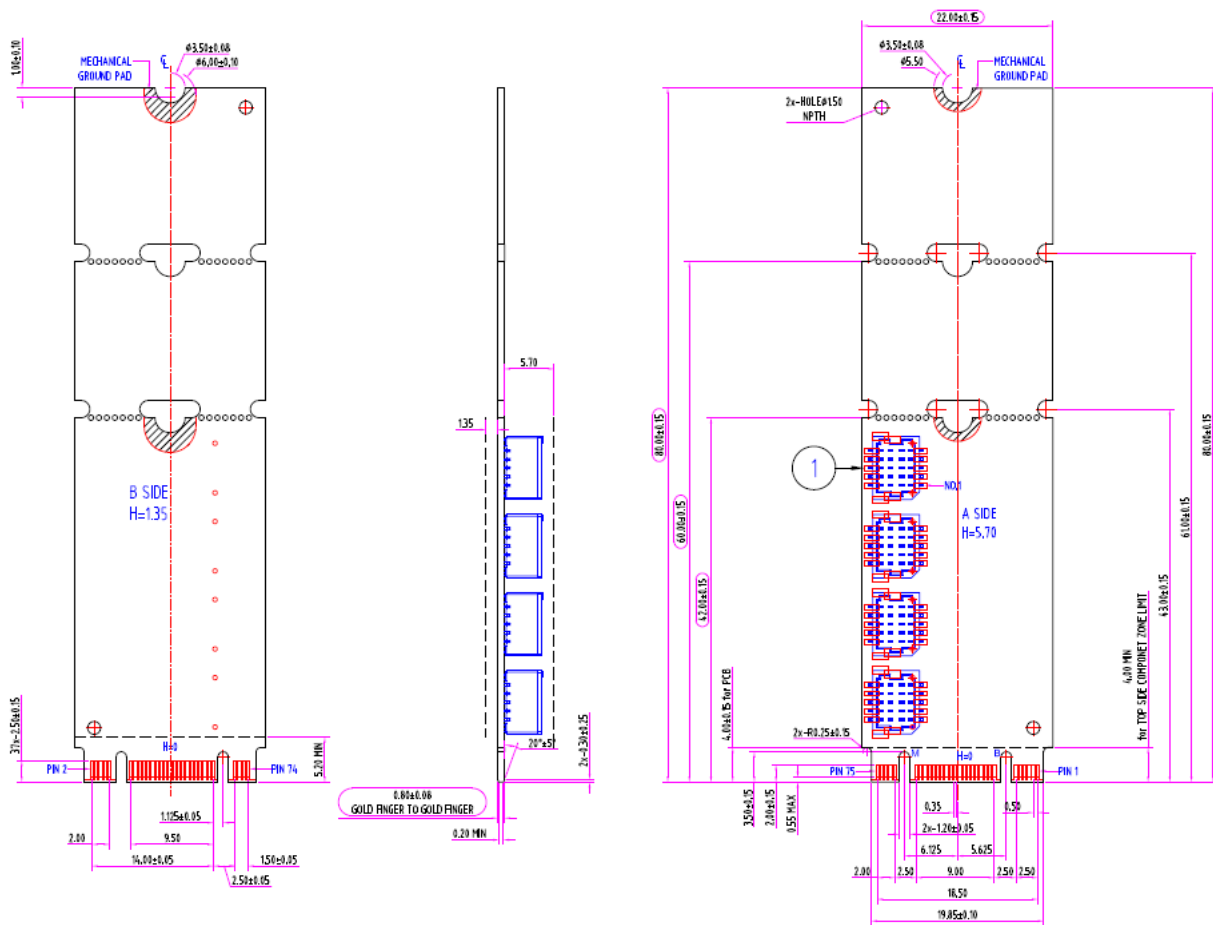
Environment

Operation Temperature	0 to 70°C (32 to 158°F)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

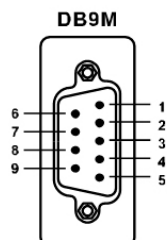
PCB Dimension	22 x 80 mm
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Mechanical Drawing (Unit = mm)



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

- M2S6456M - 4 ports RS-232 PCI-Express Serial Card M.2 (2242/2260/2280 Type, Key B+M)
- Quick Installation Guide
- Serial RS-232 D-Sub 9-pin male with nuts on cable, 30 cm x 4pcs



TAIWAN
TAIPEI HEADQUARTERS
Tel : +886-2-8913-1987
R&D CENTER
Tel : +886-2-8913-1987
Email : info@sunix.com.tw

CHINA
BEIJING
Tel : +86-10-65308421
SHENZHEN
Tel : +86-0755-82339025
Email : info@sunix.com.cn

EUROPE
GERMANY
Tel : +49 (0) 69-95209506
Email : info@sunix-euro.de