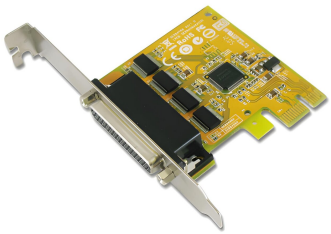
AC-Si6456H+L

Sunix 6456H 4-port RS-232 High Speed PCI Express Board

Product Overview

Sunix 6456H - standard + Low-profile dual bracket - 4 port high-speed serial (16c950) RS232, PCI-Express (1x), 128byte hardware + 128k software FiFo, SUN2410 chipset, 921.6 Kbps, 15KV ESD protection + 15KV IEC1000-4-2 Air Gap Discharge + 8KV IEC1000-4-2 Contact Discharge - with extra low-profile bracket for slim case or 2u rackmount





Specifications

About this product

Buy the Sunix 6456H 4-Port PCI Express RS232 Serial Card for reliable high-speed industrial serial communication in South Africa. Featuring the SUN2410 chipset, 921.6 Kbps baud rate support, 128-byte hardware FIFO, and advanced 15KV ESD protection, this PCIe x1 card delivers stable multi-device connectivity for automation, CNC systems, and legacy equipment integration. Install the standard or low-profile bracket and shop now for dependable serial expansion performance in professional computing environments.

Overview Summary

The Sunix 6456H is a 4-port RS232 PCI Express serial expansion card designed for industrial and embedded computing environments. It uses the SUNIX SUN2410 native UART controller to deliver stable and efficient multi-port serial communication through a PCIe x1 interface.

With support for high-speed data transmission up to 921.6 Kbps, this card is suitable for connecting legacy serial devices such as PLC controllers, CNC machinery, modems, and industrial sensors. The 128-byte hardware FIFO buffer and 128KB software FIFO ensure smooth data handling and reduced risk of transmission loss.

Built for durability, the Sunix 6456H includes advanced surge protection with 15KV ESD shielding (air, contact, and human body model standards), making it ideal for demanding industrial environments where electrical interference is common.

Performance tier: Industrial / Professional

Uses:CNC control systems, factory automation, PLC communication, legacy serial device integration, embedded computing

Overview

SUNIX SER6456H, PCI Express serial communication boards meet 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 PC-based system. The majorities

of today's motherboards is not equipped with serial ports or only have one serial port. With SUNIX PCI Express serial board, users can add four serial ports to their system, allowing them to use serial devices further. SUNIX SER6456H card has 128-bytes onboard FIFO buffer. It is designed with SUNIX UART controller, SUN2410 and as well built with many of SUNIX advanced features and technologies, making it the best solution for commercial and industrial automation applications.

Description

The Sunix 6456H PCI Express RS232 serial card is designed to expand desktop or industrial PCs with four high-performance COM ports. Built around the SUN2410 chipset, it ensures stable and efficient serial communication across multiple connected devices. Its PCIe x1 interface allows broad compatibility with modern motherboards while maintaining support for legacy RS232 equipment.

This card is engineered for reliability in automation, manufacturing, and embedded systems where consistent serial data transfer is essential. The inclusion of a 128-byte hardware FIFO buffer improves throughput and reduces latency, ensuring accurate communication even under heavy workloads.

Features

Key features of the Sunix 6456H include:

- 4 x RS232 serial ports for multi-device connectivity
- SUNIX SUN2410 PCI Express UART controller for stable performance
- High-speed communication up to 921.6 Kbps baud rate
- 128-byte hardware FIFO and 128KB software FIFO buffer
- PCI Express x1 interface for modern PC compatibility
- Standard and low-profile bracket included for flexible installation
- Advanced 15KV ESD protection (air, contact, and HBM standards)
- Plug and play configuration with system-assigned IRQ and I/O

What's in the Box

- Sunix 6456H 4-Port PCIe RS232 Serial Card
- Standard bracket
- Low-profile bracket
- Installation accessories

Specifications

General	
Interface	RS-232
Controller	SUNIX SUN2410
BUS	PCI Express Spec 2.0, Single-Lane (x1)
IRQ & IO	Assigned by System
Serial Communication	
Interface	RS-232
No. of Port	4-port
FIFO	128byte Hardware
Signal	DCD, TxD, RxD, RTS, CTS, DTR, DSR, GND, RI

Baud rate	50bps ~ 921.6Kbps
Stop bit	1, 1.5, 2
Parity	even, odd, none, mark, space
Flow Control	None, Xon/Xoff, RTS/CTS
ESD Protection	+/-15KV Human Body Model (HBM)
	+/-15KV Air Gap Discharge
	+/-8KV Contact Discharge
PCB Connector	DB44 Female
Driver Support	
Windows Client	XP / Vista / 7 / 8.x / 10 (X86/X64) / 11
Windows Server	2003 / 2008 / 2012 / 2016 / 2019 / 2022 (X64)
Windows Embedded	XP Embedded / POSReady 2009 / POSReady / Embedded System 2009
Linux	Linux 2.x / 3.x / 4.x / 5.x / 6.x
DOS	DOS
***UNIX**	FreeBSD / QNX / SCO OpenServer / SCO UnixWare / Solaris
***IBM OS/2**	WARP 3/WARP 4
	* marked as a project supported operating system. Please contact us if you have any further need.
Regulatory Approvals	
Hardware	CE, FCC, VCCI, BSMI
Software	Microsoft WHQL Windows
	Windows Client: XP / Vista / 7 / 8.x / 10 (X86/X64) / 11
	Windows Server: 2003 / 2008 / 2012 / 2016 / 2019 / 2022 (X64)
Environment	
Operation Temperature	0 to 60degreesC (32 to 140degreesF)
Operation Humidity	5 to 95% RH
Storage Temperature	-20 to 85degreesC (-4 to 185degreesF)
Dimension	
PCB Dimension	65 x 69 mm
Bracket	Standard 121 mm
Bracket Space	1

FAQ

What is the Sunix 6456H used for?

It is used to add four RS232 serial ports to a computer, enabling connection to industrial equipment such as CNC machines, PLCs, and legacy serial devices.

Is the Sunix 6456H suitable for industrial use?

Yes, it is designed for industrial environments with strong ESD protection and stable multi-port serial communication for automation systems.

Does it support modern operating systems?

Yes, it supports Windows, Linux, and DOS environments with driver support for industrial and embedded systems.

What speed does the serial communication support?

It supports baud rates up to 921.6 Kbps for high-speed RS232 communication.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/AC-Si6456H-L-Sunix-6456H-4-port-RS-232-High-Speed-PCI-Express-Board-p-75261.php

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