

4-Port Serial PCIe Card, Quad-Port PCI Express to RS232/RS422/RS485 (DB9) Serial Card, Low-Profile Bracket Incl., 16C1050 UART, Windows/Linux, TAA Compliant - Level-4 ESD Protection

**Product ID:** PS74ADF-SERIAL-CARD



Add serial communication support to a desktop computer or Small Form Factor (SFF) system, using this 4-Port Serial PCI Express Card. The four DB9 ports can be independently configured to support RS-232, RS-422, and 2/4-wire RS-485 standards, for communication with compliant serial peripheral devices.

This PCIe Serial Card is equipped with on-board DIP switches, enabling each DB9 serial port to operate in RS-232, RS-422, and/or RS-485 mode(s). The card features LED indicators per port, providing real-time monitoring of port activity.

The PCI Express Serial Adapter Card features three power modes that are configurable via on-board jumpers, including 12V (1.5A per port), 5V (1.5A per port), or no power (RI), over pin 9.

This serial card enables the continued use of legacy serial devices, preventing down time and avoiding costly upgrades. The 4-Port PCIe Serial Card is an ideal system upgrade for a wide range of applications (e.g., point-of-sale terminals, PLCs, factory control and automation, scientific sensors, medical equipment, scanners, and oscilloscopes)

## Certifications, Reports and Compatibility



## Applications

- Manufacturing (CNC machinery, process control equipment, bar code scanners, and serial printers)
- POS (credit/debit card readers, receipt printers, bar code scanners, cash registers, and scales)
- Security (UPS control, access key panels, video cameras, card readers, and modems)
- Healthcare (patient monitoring equipment, nurse stations, and modems)

## Features

- **4-PORT PCIE SERIAL CARD:** On-board DIP switches allow each DB9 serial port to operate in its own independent mode, enabling the connection of RS-232, RS-422, and RS-485 devices; LED indicators to monitor data transmit/receive status
- **CONFIGURABLE POWER:** Quad-Port PCI Express Serial Adapter Card features configurable power of 12V (1.5A per port), 5V (1.5A per port), or no power (RI) over pin 9 via auxiliary SATA power; Per-Port power modes are individually configurable via jumpers
- **APPLICATIONS:** Ideal for desktops and servers, with a wide range of uses such as point-of-sale terminals, PLCs, factory control and automation, scientific sensors, medical equipment, scanners, and oscilloscopes; DB9 ports work with screw-locking cables
- **STANDARD & LOW PROFILE BRACKETS:** TAA-Compliant Serial Card is equipped with two standard profile brackets (pre-installed), and includes four low-profile brackets for compatibility with small form factor desktops/servers
- **TECH SPECS:** Asix AX99100 Chipset; 16C450 and 16C550 UART compatible; 4x 9-Pin D-Sub Ports; Max Baud 921.6Kbps per port; 256 Byte FIFO; COM Retention; Supports Windows and Linux; Odd/Even/Mark/Space/None Parity Modes; 5/6/7/8/9 Data Bits; PCIe 2.0 x1

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### Hardware

Warranty	2 Years
Ports	4
Interface	Serial
Bus Type	PCI Express
Card Type	Standard Profile (LP bracket incl.)
Port Style	Integrated on Card
Industry Standards	PCI Express Version 2.0 x1
Chipset ID	ASIX - AX99100

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### Performance

Serial Protocol	RS-232/422/485
ESD Protection	+/-8kV (Contact)
	+/-15kV (Air)
	+/-15kV (HBM)
Max Baud Rate	921.6 Kbps
Data Bits	5, 6, 7, 8, 9
FIFO	256 Bytes
Flow Control	Hardware and Software
Parity	Even, Odd, None, Space, and Mark
Stop Bits	1, 1.5, 2
General Specifications	UART Compatibility: 16C450, 16C550, 16C650, 16C750, and 16C950
MTBF	6,548,788 Hours

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**Connector(s)**

Connector Type(s)	1 - PCI Express x1
External Ports	4 - 9 pin D-Sub (DB-9) Male

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**Software**

OS Compatibility	Windows 7, 8, 8.1, 10, 11
	Windows Server 2016, 2019, 2022
	Linux 2.6.13 and newer (LTS Versions Only)

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**Special Notes / Requirements**

System and Cable Requirements	Computer with an available PCI Express x1 (or greater) slot
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**Indicators**

LED Indicators	4 - Data Receive LED: Flash Green to show activity
	4 - Data Transmit LED: Flash Yellow to show activity

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**Environmental**

Operating Temperature	0C to 70C (32F to 158F)
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Storage Temperature	-20C to 80C (-4F to 176F)
Humidity	20% ~ 80% RH

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#### **Physical Characteristics**

Color	Black
Cable Length	11.8 in [30 cm]
Product Length	4.8 in [12.1 cm]
Product Width	4.3 in [10.9 cm]
Product Height	0.6 in [1.6 cm]
Weight of Product	2.1 oz [60.0 g]

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#### **Packaging Information**

Package Quantity	1
Package Length	8.3 in [21.2 cm]
Package Width	5.7 in [14.5 cm]
Package Height	1.6 in [4.0 cm]
Shipping (Package) Weight	8.1 oz [230.0 g]

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#### **What's in the Box**

Included in Package	1 - 4-Port Serial Card
	4 - Low-Profile Bracket
	3 - Ribbon Cable
	1 - Quick-Start Guide

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#### **Warranty Information**

Warranty	2 Years
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*\*Product appearance and specifications are subject to change without notice.*