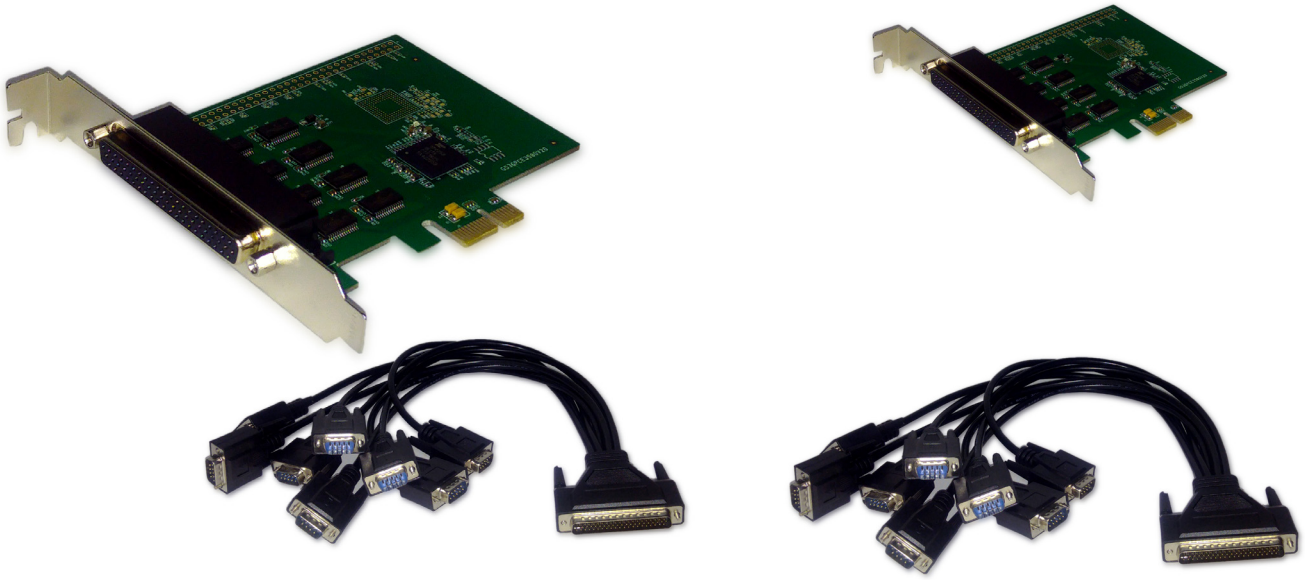
BA-RS232/8-EX
RS-232 (Seri) 8 Port PCI Express Kart



Production specification

Model number	BA-RS232/8-EX
Chipset	ASIX/MCS9900
Port number	8*Serial Port
Interface	PCI Express 1x slot
Support OS	Windows®10(32/64), 8 / 8.1 (32/64), 7 (32/64), Vista(32/64), XP(32/64), 2000 Windows Server® 2012, 2008 R2, 2003(32/64) Mac OS® 10.x (Intel based, tested up to 10.9) Linux 2.4.x and later (Tested up to 3.5)
Environment	Operating Temperature: 0 ℃-50 ℃
	Relative Humidity: 10%-90%(non-condensing)
	Storage Temperature: -0℃-80℃
	Relative Humidity: 5%-90%(non-condensing)
Features	Supports RS232, RS485 & RS422 modes Bi-directional speeds from 50 bps to 16 Mbps/Port

Full Serial modem control
Supports Hardware, Software flow control
5, 6, 7, 8 and 9-bit Serial format support
Even, Odd, None, space & Mark parity supported
Custom BAUD Rates supported with external clock or by programming internal PLL
on Chip 256 Byte depth FIFOs in Transmit, Receive path of each Serial Port
Supports remote wake up and power management features
Serial Port transceiver shutdown support
Supports Slow IrDA on all Serial Ports IEEE1284

Chipset Description

MCS9900 is a single lane multifunction PCI express to I/O controller. It supports two modes of operations which are selectable through device mode select pins. Mode1 supports four serial ports and GPIO, Mode2 supports two serial ports, one parallel port and GPIO. MCS9900 also provides an option for peripheral expansion through proprietary Cascade interface. The generic cascade interface allows interconnection with similar chips like MCS9900, MCS9904, MCS9901CV-CC & MCS9922 for port expansion. The serial ports are compatible with RS232, RS422 & RS485 standards and supports throughput from 50bps to 16Mbps. Parallel Port is compatible with IEEE 1284 and supports Nibble, Byte, SPP, ECP, and EPP modes.

Features:

- Single-lane (X1) PCI Express End-point Controller with integrated PHY
- Compliant with PCI Express Base Specification, Revision 1.1
- Compliant with PCI Express card specifications
- Supports Eight PCI Express functions
- Supports auto completion of configuration requests
- Supports built in flow control
- Supports Message TLP (Error) generation
- Supports integrated time out handling of Non-posted request
- Supports both legacy and MSI Interrupt
- Supports PCIe Power Management

Serial Port

- Eight 16C450 / 550 / Extended 550 / 650 / Enhanced Mode compatible UARTs
- Supports RS232, RS422 & RS485 modes
- Bi-directional speeds from 50 bps to 16 Mbps per port
- Full Serial Modem Control
- Supports Hardware, Software Flow Control
- Supports 5, 6, 7, 8 bit Serial format
- Supports Even, Odd, None, Space and Mark parity
- Supports Custom baud rate by programming internal PLL or external clock
- Supports On Chip 256 Byte depth FIFOs in Transmit, Receive path of each Serial Port
- Supports remote wakeup and power management features
- Serial Port transceiver shutdown support
- Supports Slow IrDA mode (up to 115200bps) on all Serial Ports

Parallel Port

- Compatible with IEEE 1284
- Nibble Mode
- Byte Mode
- Enhanced Parallel Port (EPP 1.9)
- Extended Capability Port (ECP)
- FIFO mode (Buffered SPP mode)
- Cascade : MCS9900 supports a 13-Pin proprietary interface to connect to other cascade supported ASIX devices for IO expansion. For example, MCS9900 can interface with another MCS9900 to derive following product configurations
- PCIe to 8 Serial Ports
- PCIe to 6 Serial Ports and 1 Parallel Port
- PCIe to 4 Serial Ports and 2 Parallel Ports
- General Device Features
- I^2C interface for EEPROM
- EEPROM read / write through PCIe Interface
- Up to 8 bi-directional multi-function GPIO lines
- On chip oscillator
- Power supply : 1.2V, 3.3V
- Package : 128-Pin LQFP, RoHS
- Operating Temperature : 0 to +70°C