

MCS9835 -- PCI to Dual Serial and Single Parallel Controller

The MCS9835CV-BA is a PCI based single function I/O Adapter. It has two 16C16/450C550 compatible UART channels and one IEEE 1284 compliant parallel port.

The MCS9835CV-BA has -32Byte transmit and receive FIFO for each UART channel. MCS8935CV-BA performs serial-to-parallel conversions on data received from a Serial device, and parallel-to-serial conversions on data received from its CPU.

Parallel Port interface in MCS9835CV-BA is an IEEE 1284 compliant SPP / PS2 / EPP / ECP Parallel Port that fully supports Centronics interface.

The MCS9835CV-BA is ideally suited for PC applications, such as Add-On COM ports and Parallel Ports. It is available in -128Pin QFP package & fabricated using an advanced submicron CMOS process to achieve low power drain and high-speed requirements.

MCS9835CV-BA is designed to be pin compatible with previous version of MCS9835CV. Existing designs of MCS9835 can be migrated to MCS9835CV-BA without any modification to system design. Software compatibility is also maintained between MCS9835 to MCS9835CV-BA.

Feature:

- General
 - 5V Operation
 - Low Power
 - Fully compliant with PCI Local Bus Specification 2.3
 - Re-map function for Legacy Ports
 - Microsoft WHQL Complaint Drivers
 - Advanced testability through scan addition
- Serial Port
 - Two 16C 550 / 450 compatible UARTs
 - Supports RS232, RS485 & RS422 modes
 - Bi-directional Speeds from 50 bps to 115200 bps / Port
 - Full Serial modem control
 - Supports Hardware Flow Control

- 8 ,7 ,6 ,5bit Serial format support
- Even, Odd, None, Space & Mark parity supported
- On Chip 32 Byte FIFOs in Transmit, Receive paths for both Serial Port

IEEE1284 Parallel Port

- Multi-mode IEEE1284 compliant controller (SPP, PS2, EPP, ECP)
- Faster data rates up to 1.5Mbytes/sec for Parallel Port

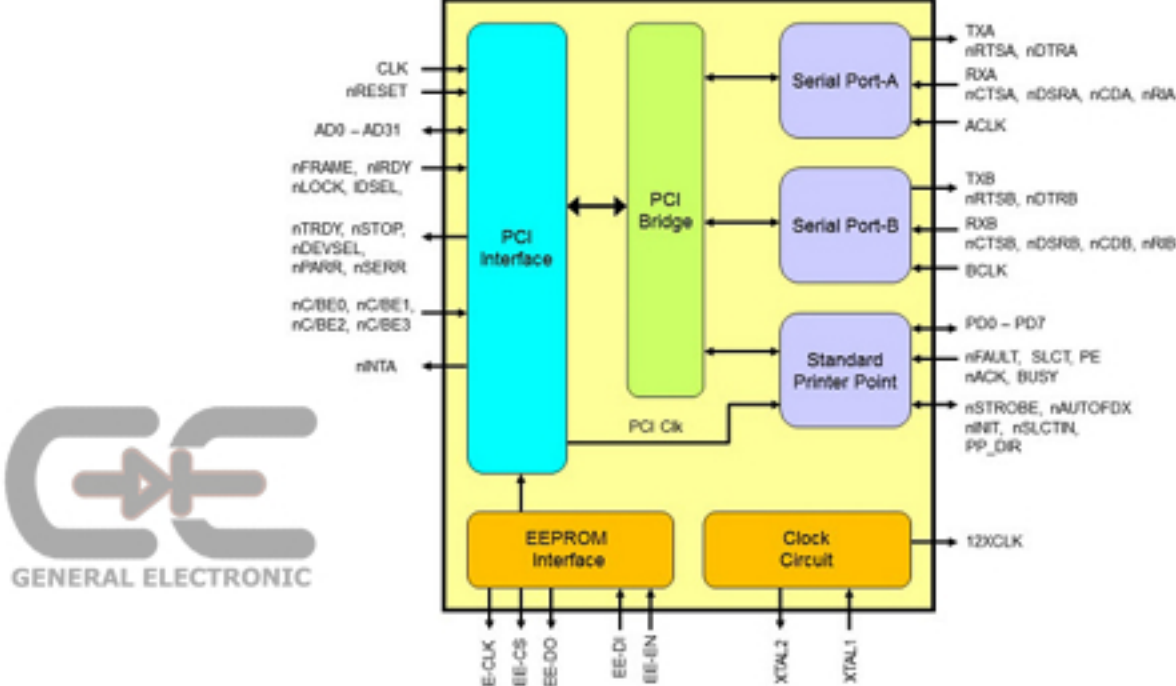
Miscellaneous

- Four-Wire SPI Interface for EEPROM
- EEPROM read through PCI
- Package : -128Pin QFP, RoHS
- Operating Temperature : 0 to °70+C

Target Applications:

- Generic Serial attached devices like Modem & Serial Mouse
- Serial Networking / Monitoring Equipment
- Data Acquisition System
- POS Terminal & Industrial PC
- Parallel / Printer Port based applications
- Add-On I/O Cards-Serial / Parallel
- Embedded systems-For I/O expansion
- Industrial Control

Block Diagram



Selection Guide

Part No.	Local Bus	Serial	Parallel	ISA	Temp Range (°C)	Expansion	Package
MCS9865	PCI 2.3	2-port	1/2-port	1-port	-40 ~ +85	Through ISA	LQFP-128
MCS9845	PCI 2.3	2-port	-	1-port	0 ~ +70	Through ISA	QFP-128
MCS9835	PCI 2.3	2-port	1-port	-	0 ~ +70	-	QFP-128
MCS9820	PCI 2.3	1-port	-	-	0 ~ +70	-	QFP-128
MCS9815	PCI 2.3	-	2-port	-	0 ~ +70	-	QFP-128
MCS9805	PCI 2.3	-	1-port	-	0 ~ +70	-	QFP-128