

Features**● 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 450 / 550 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

Product Brief

- 5, 6, 7, 8-bit 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 : 128-Pin QFP, RoHS
- Operating Temperature : 0 to +70°C

Product Description

The MCS9835CV-BA is a PCI based single function I/O Adapter. It has two 16C450/16C550 compatible UART channels and one IEEE 1284 compliant parallel port.

The MCS9835CV-BA has 32-Byte 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 128-Pin 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.

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

