ME9300/16

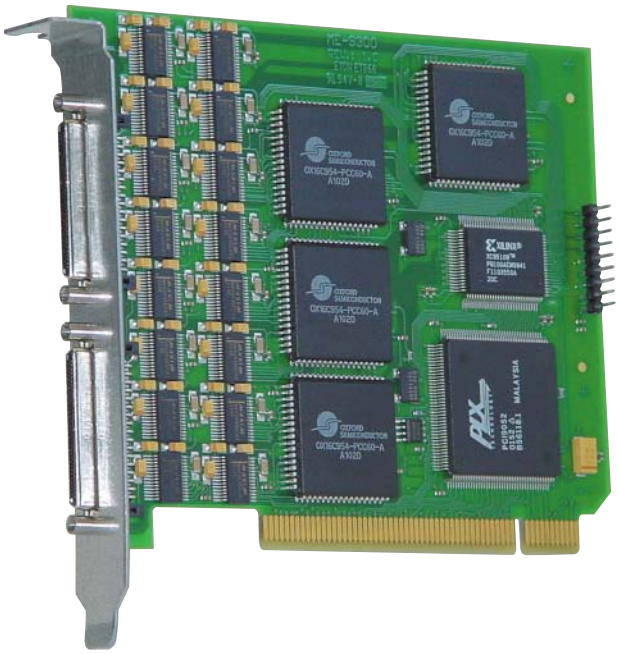
High-Speed Serial Interface for PCs

- Adds 16 serial channels to your computer.
  Most channels you can get from a PCI Card
- Standard baud rates up to 1 Mbaud.
  Handles the highest speed serial devices.
- Available with full RS-232 interfaces.
  Includes all standard COM signals.
- Expands your computer's serial capability.
  Most ports for a single slot PCI card.
- Plugs into any PCI slot.
  Fits most Intel type PCs
- Included drivers support Visual Basic, C++, Delphi, Borland C/C++ and Linux.
  Works with most application languages.
- Supports Win 98/Me/NT/2k and XP
  Easy Plug&Play Installation

CE Approved

Description

The ME9300/16 Serial I/O Board is the easy way to add 16 serial ports to your PC. The ME9300 board plugs into any empty PCI socket and are available with RS-232 interfaces.



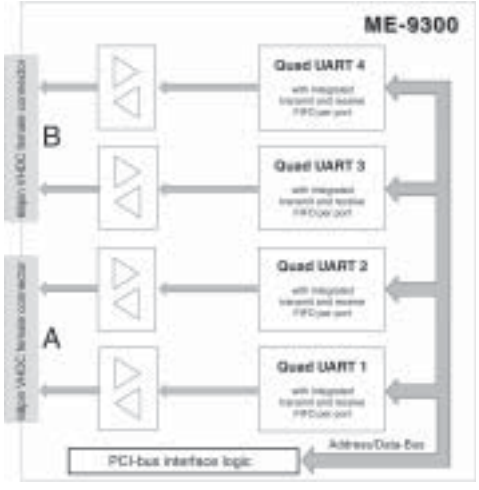
ME 9300/16 Board

Applications

The ME9300/16 Serial I/O Board can be used in many applications where extra serial ports are needed. Use them to connect terminals to the computer for multi-user programs. Use them to connect serial transducers to the computer to instrument a test laboratory or production facility. Use them in test systems to communicate with the UUT and avoid damaging the PC motherboard. Use them in POS applications to connect to peripheral devices like scales, scanners etc. They may also may be used to replace damaged COM ports on the PC motherboard with a plug-in serial interface.

Serial Channels

The ME9300/16 Serial I/O Board has 16 RS-232 channels on one card. All of the normal serial signals associated with a PC COM port are present on two high density VHDC connectors on a single slot wide metal bracket. Each connector includes all of the COM signals for eight channels. Optional cable harnesses and connectivity boxes are available for breaking out the channel signals in a way that is compatible with your system layout.



ME 9300/16 Block Diagram

Each RS-232 channel has the TX and RX data lines plus the RTS, CTS, DCD and DTR handshake signals, an RI input and ground.

Software Support

The ME9300/16 Serial I/O Board includes a full set of drivers for Windows 95/98/Me/NT/2000 and Windows XP. The drivers support Visual Basic, Visual C++, Delphi, Borland C/C++ Builder, and Linux. Linux drivers are the C source code for kernel 2.2 thru 2.4. Software is also included that makes the ME9300/16 look like 16 standard PC COM ports.

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ME9300/16 DESCRIPTION

Physical Interface

The ME9300/16 Serial I/O Board has two 78-pin VHDC Very High Density Connectors. Each connector has 8 serial channels. The user has several choices of how to connect to the ME9300/16.

Choice one is a pair of 68 conductor VHDC-to-VHDC cables and a 16 channel breakout board assembly with 16 DE-9P connectors. Each DE-9P connector mimics a standard PC COM port. The 115326 Breakout Board Assembly is assembled on a 12.5 inches long by 2.5 inches wide (31.75 cm x 6.35 cm) aluminum panel with four mounting holes as shon in the photo on the right. The 115326 cables come with a standard length of 54 cm (21 inches) but can be ordered to any length. The 115320 Breakout Board Assembly and 115326-54 Cables are ordered separately.

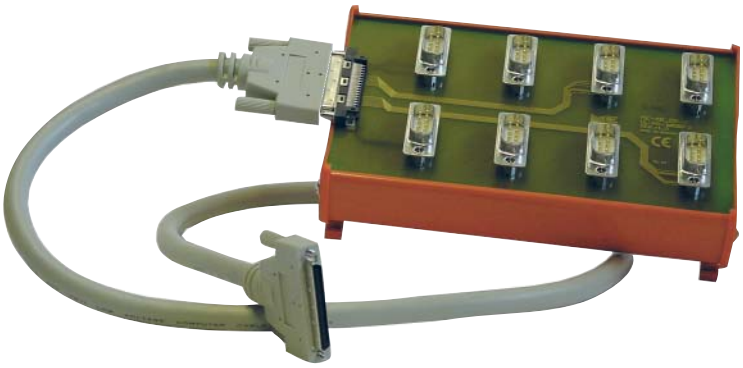
The second choice is a 1 meter long VHDC-to-VHDC cable and the ME AB-D9/8-V metal breakout box with 8 DE-9P connectors. Order two ME AB-D9/8-Vs for each ME-9300 board. The 1 meter cable is included with the ME AB-D9/8-V breakout box.

The third choice is a 1 meter long VHDC-to-VHDC cable and the DIN mounted ME AB-D9/8-HV breakout PC board with 8 DE-9P connectors. Order two ME AB-D9/8-HVs for each ME-9300 board. The 1 meter cable is included with the ME AB-D9/8-HV breakout box.

Another choice is a 1 meter long VHDC-to-VHDC cable and two 8 channel RJ45 breakout boards. The ME AB-RJ45/8x8-V is a solid metal box. The ME AB-RJ45/8x8-PV is a thinner connection board for integration into systems. Both RJ45 breakout assemblies are compatible with the Rocket Port. Cable is included with the ME AB-RJ45/8x8-P breakout box.

115320 Breakout Assembly with 115326 type Cable

ME AB-D9/8-V Connectivity Box and Cable



ME AB-D9/8-HV Connectivity Box and Cable

ME9300/16 SPECIFICATIONS

Serial Interfaces

RS-232 Interfaces are full-duplex and include data and handshake signals

Signals	TX, RX, RTS, CTS, DCD, DTR, DSR and RI
Baud Rates	Std Windows baud rates up to 1 Mbaud
Data Bits	5, 6, 7 or 8 bits
Parity	None, even, or odd
Stop bits	1 or 2
Flow Cntl	Xon/Xoff, Hardware, or None

PC Compatibility

32-bit standard PCI Bus
PCI bus interface is PCI 2.1 compliant.
Shared interrupts
All settings made via software.
Fits all Intel type PCs

Software

Languages
- Visual C++ from version 4.0
- Visual Basic from version 4.0
- Delphi from 2.0
- Borland C/C++ Builder
- Linux C source code for kernel 2.2 through 2.4.

Systems
- Windows 95/98/Me/NT and 2000
- Linux

Physical

Power consumption
- 2.3 A @ +5 V typ.

Size
- 129 mm x 107 mm (without mounting bracket

Connector
- Two 68-pin VHDC female Connectors

Temperature
- Operating 0 to 50 °C
- Storage -40 to 70 °C

Relative humidity
- 20 to 55% (non condensing)

CE Certification

EMC Directive 89/336/EMC
Emission EN 55022
Noise immunity EN 50082-2C

Included Items

16 channel Board
Manual on CD-ROM
Drivers for Windows 95/98/Me/NT and Windows 2000
Breakout Cable and connectivity boxes are ordered separately.

ORDERING INFORMATION	Part Number
Sixteen channel RS-232 Interface Board with drivers	ME9300/16
Sixteen channel Breakout Board Assembly	115320
Cable Assembly, VHDC-to-VHDC, 68 conductors. L = length in cm. Standard length is 54 cm	115326-L
Connectivity Box, 8 channels, 68-pin connector cable to eight DE-9 male connectors	MEAB-D9/8-V
Connectivity Box, 8 channels, 68-pin connector cable to eight RJ45 female connectors	MEAB-D9/8x8V
Connectivity Board, 8 channels, 68-pin connector cable to eight DE-9 connectors, DIN rail mount	MEAB-D9/8-HV