

Isolated Multi-Port Highspeed Communication - RS232, 422/485, Mix

ME-9000



ME-9000i cPCI and PCI



This opto-isolated multiport datacom board is the all-rounder among the serial interfaces: Up to 8 ports, RS232, 422, 485 and mixed, rates up to 1 MBaud, additional discrete digital I/O lines and a counter. The ideal solution for your point-of-sales, retail or industrial datacom applicationen at a fair price.

- 2, 4 or 8 ports, including breakout cable with 2, 4 or 8 connectors.
- RS232 or RS422/485 ports or mixed versions RS232 + RS422/485 (half of the ports are RS232, other half are RS422/485).
- Highspeed transmission rates up to 1 MBaud.
- All handshake lines wired to the connector.
- Versions "i": Opto-isolation of all ports/lines with common ground (CGND). Versions "p": Complete opto-isolation of all ports with separate grounds (no common GND).
- Versions for 3.3 V and 5 V PCI.
- 8 discrete TTL digital I/O lines, 1 counter 16 bit.
- Ideal solution for POS (point-of-sales) and retail applications.
- For use with Windows NT, 2000, XP, Linux.
- PCI Local Bus 2.1 compatible. Plug'n'Play. Available as StandardPCI or 3 U PXI/CompactPCI versions.



Software: ME-Power-CD included - contents...

<ul style="list-style-type: none"> <li>• Drivers for Windows XP, 2000, NT. Not with 95/98/Me!</li> <li>• Supported: Visual C++, Delphi, Visual Basic, Borland C/C Builder.</li> <li>• Can be used as standard COM port with Agilent VEE, LabVIEW and others.</li> </ul>	<ul style="list-style-type: none"> <li>• Driver for Linux (source code under GPL).</li> <li>• Driver for QNX (source code under QNX Community License).</li> </ul>	<ul style="list-style-type: none"> <li>• Utilities, examples, demos.</li> <li>• "Soft-manuals", English and German, for Acrobat Reader/PDF.</li> </ul>
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>> Ordering Code and Functions

ME-9000

Please call our sales team for the models available in stock:

☎ (089) 89 01 66-0 • sales@meilhaus.com • www.meilhaus.com

Package contents: Board, ME-Power-CD, 2x, 4x or 8x breakout cable 78-to-9-pin D-sub.

ME-9000	Isol./	Ports	RS	Bus	-V
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PCI Voltage:

For models with 5 V PCI fill in "-5", for models with 3.3 V PCI fill in "-3.3".

Bus platform:

"PCI" or "cPCI" (for PXI/CompactPCI)

Interface type:

"RS232", "RS485" (for RS485/422) oer "MIX" (RS232 + RS422/485, half-and-half)

Number of ports:

"2", "4", "8"

Isolation:

Standard: TTL, no opto-isolation.

"i": Opto-isolation up to 500 V, with common ground (CGNC).

"p": Complete opto-isolation of all ports with separate grounds/no common GND (at the moment available for CompactPCI/PXI only). Isolation up to 1000 V

Examples:

ME-9000/2 RS232 PCI -5

ME-9000i/4 RS485 PCI -3.3

ME9000p/8 MIX cPCI -5

Pice ranges:

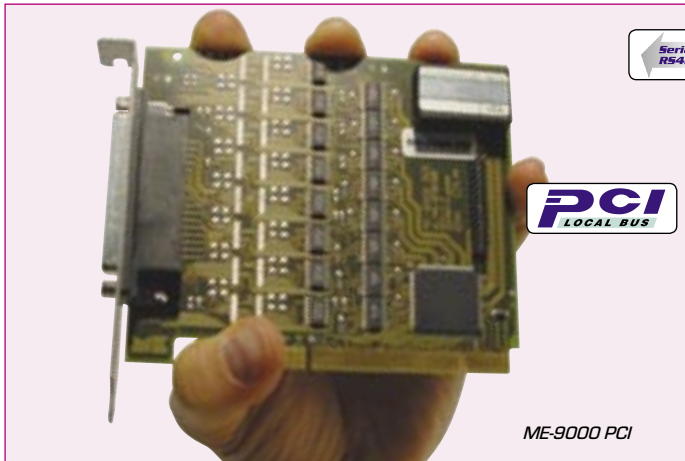
ME-9000/2 RS PCI -V	TTL, 2 port, PCI	ME-9000/2 RS cPCI -V	TTL, 2 port, cPCI/PXI	ME-9000p/2 RS cPCI -V	No CGND isol., 2 port, cPCI/PXI
ME-9000/4 RS PCI -V	TTL, 4 port, PCI	ME-9000/4 RS cPCI -V	TTL, 4 port, cPCI/PXI		
ME-9000/8 RS PCI -V	TTL, 8 port, PCI	ME-9000/8 RS cPCI -V	TTL, 8 port, cPCI/PX	ME-9000p/4 RS cPCI -V	No CGNC isol., 4 port, cPCI/PXI
ME-9000i/2 RS PCI -V	Opto-isol., 2 port, PC	ME-9000i/2 RS cPCI -V	Opto-isol., 2 port, cPCI/PXI		
ME-9000i/4 RS PCI -V	Opto-isol., 4 port, PCI	ME-9000i/4 RS cPCI -V	Opto-isol., 4 port, cPCI/PXI	ME-9000p/8 RS cPCI -V	No CGNC isol., 8 port, cPCI/PXI
ME-9000i/8 RS PCI -V	Opto-isol., 8 port, PCI	ME-9000i/8 RS cPCI -V	Opto-isol., 8 port, cPCI/PXI		

Specifications

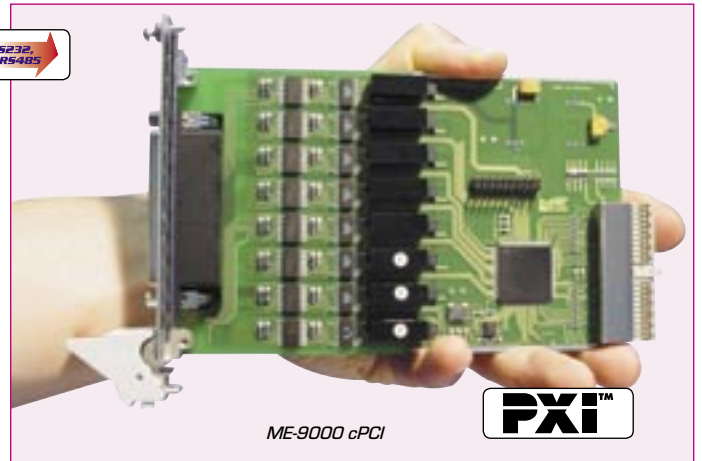
Data transmission	
Interface	Models "RS232": RS232 with handshake Models "RS485": RS422, RS485 half-duplex, RS485 full-duplex. Echo/On/Off at RS485 can be set with soldering bridge Models "MIX": Half of the ports are RS232, other half of the ports are RS422/485, functions see above
Ports	Depending on modell 2, 4 or 8 ports
Opto-isolation	Standard models: TTL level, no opto-isolation Models "i": Opto-isolation of all lines up to 500 V, with common ground Models "p": Complete opto-isolation, each port has its separate GND (for CompactPCI/PXI only) up to 1000 V
Baud rates	75/110/134/150/300/600 Baud, 1.2/1.8/2.4/4.8/7.2/9.6/14.4/19.2/38.4/57.6/115.2/128/230.4/460.8/921.6 kBaud
Data format	Data bits: 4...8; parity: No, even, odd, mark, space; stop-bits: 1, 1.5 or 2
Protocol	Xon/Xoff, hardware, none
UART type, FIFO	Multi-UART(s), registers compatible with 16550 with integrated 64 Byte sende and receive FIFOs per port
Digital I/O and counter	
Digital I/O	8 discrete TTL multifunctional digital I/O channels (I/O, interrupt etc.); each bit programmable as input or output
Counter	1 counter, 16 bit
General data	
Bus interface	32 bit/33 MHz StandardPCI bus or PXI/CompactPCI bus. PCI Local Bus 2.1 compatible. 5 V or 3.3 V PCI (option -5/-3.3)
Size (mm)	PCI: ~ 123 x 98; PXI/CompactPCI: 160 x 100 (3 U Europa card format)
Connectors	78-pin D-sub female. Included, depending on version: 2x, 4x or 8x cable with 2x/4x/8x 9-pin D-sub male. 20-pin pin field on board, flat ribbon cable included, with 25-pin D-sub female and slot bracket (digital channels, counter)
ESD protection	Up to 15 kV (IEC 1000)
Temp. range	-40...+71°C

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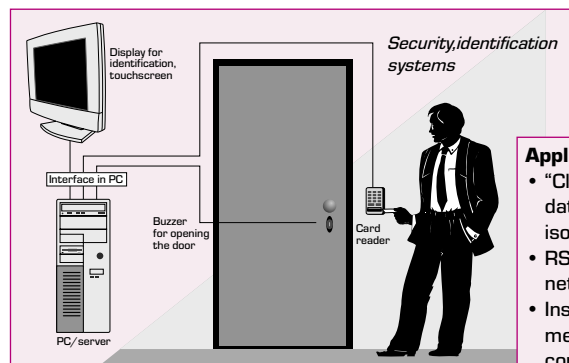
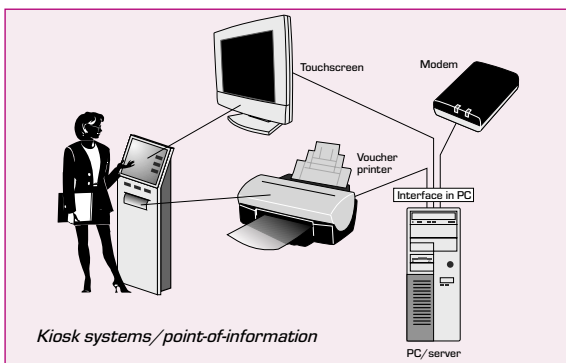
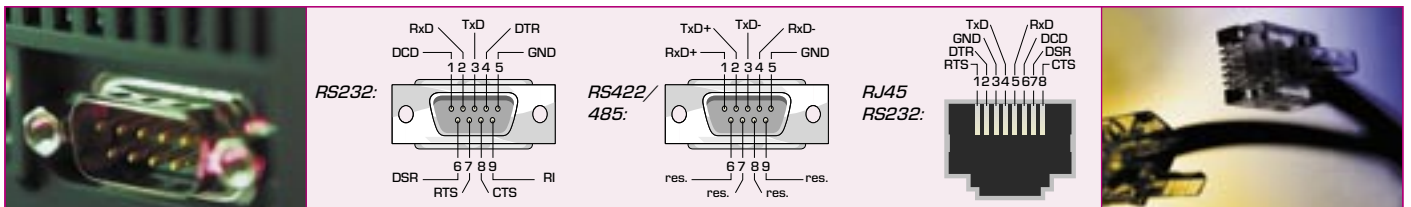
ME-9000 PCI



ME-9000 cPCI

>> Accessories

Model	Description
ME AB-D9/8	Robust 8x breakout metal box. With 9-pin D-sub male connectors. Including cable.
ME AB-D9/8-H	8x breakout card with 9-pin d-sub male connectors. Including cable and DIN rail mountable card carrier
ME AB-RJ45/8x8	Robust 8x breakout metal box. With RJ45 connectors. Including cable.
ME AB-RJ45/8x8-P	8x breakout board with RJ45 connectors. Including cable.
ME AK-DDual	<b>Spare part: Breakout cable</b> with 2x 9-pin D-sub male connectors. 1x included with the boards (2 port versions).
ME AK-DQuad	<b>Spare part: Breakout cable</b> with 4x 9-pin D-sub male connectors. 1x included with the boards (4 port versions).
ME AK-DOcto	<b>Spare part: Breakout cable</b> with 8x 9-pin D-sub male connectors. 1x included with the boards (8 port versions).



Applications:

- "Classic" industrial, serial data communication, opto-isolated.
- RS485-based remote I/O networks, opto-isolated.
- Instrumentation/measurement instrument control via RS232.
- Point-of-sales (POS), retail applications. Kiosk systems (point-of-information).
- Identification und security applications. and many more...

