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Data Sheet

August 15, 2026

BRAINBOXES

Brainboxes PM-120 PCMCIA RS422/485 Serial Card

The Brainboxes PM-120 is a PCMCIA serial card that provides one RS422/485 port. It supports data transfer rates up to 1MBaud. Ideal for adding a serial communication interface to laptops or other devices with PCMCIA slots.



MODEL

Brainboxes PM-120

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PM-120

LISTING

<https://aumictechlabs.com/products/pm-120-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Brainboxes PM-120 is a PCMCIA Type II card that provides a single RS422/485 serial communication port, designed to enhance serial connectivity for laptops and other devices equipped with PCMCIA slots. It features a 128-byte transmit (Tx) FIFO and a 128-byte receive (Rx) FIFO, utilizing a Brainboxes 16PCI950+ UART that is backward compatible with 16750, 16550, and 16450 standards, while also supporting an enhanced 950 mode. This card supports data transfer rates of up to 921,600 baud, with line drivers capable of 1Mbit/s, ensuring solid performance. The PM-120 includes a detachable, fully wired, molded cable with a 9-pin male (DB9) connector for external serial devices. For electrical protection, the card incorporates on-board Zener diodes and transient spike protection, safeguarding against noise and electrical surges. Its construction involves a 4-layer Printed Circuit Board (PCB) for enhanced signal integrity and EMC shielding.

The PCMCIA card is compliant with the PC Card Standard-February 1995. Technical Specifications * Host Interface: PCMCIA (Personal Computer Memory Card International Association) Type II Serial Port: 1 x RS422/485 UART: Brainboxes 16PC1950+ * Compatibility: 16750, 16550, 16450, and enhanced 950 modes FIFO Buffer Size: * Transmit (Tx): 128 bytes * Receive (Rx): 128 bytes Maximum Baud Rate: 921,600 baud Line Driver Speed: 1 Mbit/s Connector: 9-pin male (DB9) via detachable cable Supported Serial Modes: * RS422: Supports one transmitter and up to 10 receivers. Data rates up to 10 Mbits/sec for distances up to 40 feet (12m), and up to 100 Kbits/sec for distances up to 4000 feet (1219m). Requires a 120-ohm terminating resistor at the receiving end of the line. * RS485: Supports half-duplex communication with automatic hardware flow control. Can accommodate up to 32 transmitters/receivers in half-duplex mode. Electrical Protection: * On-board Zener diodes * Transient spike protection PCB Layers: 4 layers (including dedicated power and ground layers for EMC shielding and signal integrity) Power Consumption: * 100mA @ 5V * 130 mA @ 5V Physical Dimensions: * Width: 2.1 inches (approx. 54 mm) * Length: 3.4 inches (approx. 85 mm) * Height: 0.2 inches (approx. 5 mm) * Weight: 0.026 kg (approx. 2.36 oz) Packaged Dimensions: 160mm (length) x 135mm (width) x 49mm (height) Packaged Weight: 0.183 kg Environmental Compliance: RoHS, WEEE Operating Distance: Up to 4000 ft (1200 meters) for RS422/485 standard Compatibility * Operating Systems: * Microsoft Windows 7 (32-bit & 64-bit) * Windows Vista (32-bit & 64-bit) * Windows XP (32-bit & 64-bit) * Windows Server 2003 (32-bit & 64-bit) * Windows 2000 * Windows Me * Windows 98 * Windows 95 * Windows CE (up to 115,200 baud) PCMCIA Standard: PC Card Standard-February 1995 compliant UART Compatibility: 16750, 16550, 16450, and enhanced 950 modes Interfaces * Host Interface: PCMCIA Serial Interface: 1 x RS422/485 External Connector: 1 x DB9 Male (via detachable cable) Software and Drivers * Microsoft signed drivers are provided for Windows 7, Vista, XP, and Server 2003 operating systems, ensuring easy installation and solid operation. Fully tested drivers are also available for Windows Me, 98, 95, and CE. The product includes full documentation, a troubleshooting guide, and terminal software. Detailed sample source code for various programming languages is available. Physical Characteristics * Form Factor: PCMCIA Type II Card Dimensions: 85mm (length) x 54mm (width) x 5mm (height) Weight: 0.026 kg Cable: Detachable, fully wired, molded cable with a DB9 Male connector. Why Choose Aumictech for the Brainboxes PM-120 PCMCIA Card? At Aumictech, we specialize in supplying industrial communication hardware. Whether you need to add a reliable RS422/485 serial port to a legacy system, ensure seamless data transfer in demanding environments, or integrate specialized communication interfaces into your existing infrastructure, our team ensures the Brainboxes PM-120 delivers maximum performance.

PM120 Characteristics / Specifications

PARAMETER	VALUE
Model	PM-120
Instrument Type	PCMCIA RS422/485 serial interface
Family	Brainboxes PM-120 / PM-154
Ports	1 x RS422/485
Connector	DB9 9-pin male
Fifo	128 byte Tx and 128 byte Rx
Line Drivers	1 Mbit/s
Baud Rate	up to 921600
Data Bits	5, 6, 7 or 8
Parity	odd, even, none, mark or space
Stop Bits	1, 1.5 or 2
Flow Control	RTS/CTS, DTR/DSR
Duplex Modes	full duplex; half duplex autogating
Autogating	TxD always / RTS true enabled; RxD always enabled; RxD RTS true disabled; CTS forced true
Operating Distance	RS422/485 standard 4000 ft (1200 m)
Cable	fully wired moulded detachable cable
Bus	PCMCIA Type II
Card Size	85.6 × 54 × 5.0 mm
Pcb Layers	4
Power	100 mA at 5 V
Weight	0.067 kg (PM-120)
Windows Ce Limit	115200 baud, full duplex only
Approvals	CE, FCC, WEEE, RoHS
Manufacturer	Brainboxes
Literature	Brainboxes PM-120 / PM-154 PCMCIA RS422/485 specification sheet

PARAMETER	VALUE
Sibling	PM-154 ruggedised integrated-cable replacement in the same electrical class

PM120 Specifications

PARAMETER	VALUE
Applications	Laptop RS422/485 industrial serial, long-haul PLC and motion links, and half-duplex multidrop from a PCMCIA slot.
Key Features	One RS422/485 port on PCMCIA Type II
Hardware autogating half duplex	1200 m standard RS422/485 distance
Technical Specifications	Model: PM-120

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Sibling	PM-154 ruggedised integrated-cable replacement in the same electrical class

Notes

From the Brainboxes PM-120/PM-154 specification sheet. PM-154 weight 0.049 kg and rugged cable are the successor, not this detachable-cable PM-120.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.