

Allen-Bradley 1784-PKTX

The 1784-PKTX is an Allen-Bradley network interface card. This card is a PCI 2.3 compliant hardware and provides Data highway Plus (DH+) / Remote I/O (RIO) Channel 1A and DH485 Channel 1B ports. Technical specifications for 1784-PKTX

Manufacturer Rockwell Automation

Part Number/Catalog No. 1784-PKTX

Brand Allen-Bradley

Description Network Interface card

Communication Protocol: Data Highway Plus (DH+); Remote I/O (RIO); DH-485

Communication channels: Channel 1A: DH+ / RIO Channel 1C: DH-485

PCI port: PCI 2.3 compliant

Compatible controllers: PLC-5, PLC-5/250, and SLC 5/04 processors, and SLC 5/01, SLC 5/02, and SLC5/03 processors (only via 1785-KA5)

Remote I/O scanner: Supported

DH+ / RIO Maximum cable and communication: 10,000 ft. (3048 m) @ 57.6K bit/s 5, 000 ft. (1,524 m) @ 115.2K bits/s 2,500 ft. (762 m) @ 230.4K bits/s

DH-485 maximum cable and communication: 4,000 ft. (1219 m) @ 1200, 2400, 4800, 9600 or 19,200 bits/s

Status LEDs: 1 diagnostic/status LED per channel

Number of modules per system: Four (4)

Product Line Allen Bradley PLC 5

Module Type Bus Communication Card

Wiring Arm 1771-WN

Required External Power None

Max Modules Per System 4

Bus Communications Local PCI 2.3 Compliant

LEDs 1 Diagnosis/Status Per Channel

Dimensions 4.5 x 12.4 x 6.3 inches (115 x 317 x 160 millimeters)

Weight 0.3 lbs (0.1 kg)

Coating Conformal Coat

Typical AC Signal Delay (Off) 29 (+/- 8) ms

Typical DC Signal Delay (Off) 30 (+/- 7) ms

Channels 1A 3-Pin Phoenix for DH+ & Remote I/O, 1C 6-Pin Phoenix for DH-485

DH+/DH-485/RIO Yes Description

The Allen-Bradley 1784-PKTX is a network interface cards that directly mounts to a Peripheral Connect Interconnect (PCI) port of a personal computer. This card supports PCI bus version 2.3 and allows the host computer to connect to a Data Highway Plus (DH+), Remote I/O (RIO) or DH-485 communication network. This card may be used to interface with Programmable Logic Controllers (PLC) for implementing process visualization.

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It has a single channel DH+ / RIO combo port, labelled as channel 1A and DH-485 communication interface labelled as Channel 1C. DH+ and RIO supports long distance communication with specific coverage limited by the transfer rate. Specifically, 10,000 ft. (3048 m) @ 57.6K bit/s; 5,000 ft. (1,524 m) @ 115.2K bits/s and 2,500 ft. (762 m) @ 230.4K bits/s. For DH-485, maximum distance that may be covered is 4,000 ft. (1219 m) @ 1200, 2400, 4800, 9600 or 19,200 bits/s.

The 1784-PKTX comes with 1 diagnostic/status LED per channel and supports a maximum of Four (4) modules per system, specified by the jumper configuration. Drive development may be configured in variety of ways and depends on the operating system.

For other Operating Systems, a user-specific Driver must be created. The module uses the RSLinx PKTx driver for devices connected to either the DH+ or the DH-485 Network, and it can connect to DH+ devices, using the 10 feet (3.2 meters) CP12 cable which has a 3-pin Phoenix End with Switchable Termination resistor. Also, the module uses the 1784-CP14 cable, which is a 6 pin Phoenix Connector with switchable termination resistor to connect to an SLC on DH-485 Network. The 1784-PKTX has varying connection lengths with corresponding transfer rates, at 10,000 feet, the communication rate is at the 57.6K bit/s, at 5,000 feet, it is 115.2K bits/s, and at 2,500 feet, it is 230.4K bits/s. Connection rates on the DH-485 network at 4,000 feet is 1200 bits/s, 9600 bits/s or 19,200 bits/s, and for the Remote I/O is 230.4K bit/s at 2,500 feet through 57.6K bit/s at 10,000 feet. The module has a single LED status/Diagnostic indicator per channel, and BUS communication meets Local PCI compliance. The 1784-PKTX module has a working temperature range of 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) at a tested 5 to 95% relative humidity without condensation, and it is rated for withstanding an operational shock of 30G and a vibration of 2G at 10 to 500 Hertz.

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