



Allen-Bradley

PCMK Communication Card

Catalog Number 1784-PCMK

User Manual

About the PCMK/B Card

What's in This Chapter?

Read this chapter to familiarize yourself with PCMCIA technology and the PCMK card.

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What is PCMCIA?

The Personal Computer Memory Card International Association (PCMCIA) is an organization that defines standards for connecting peripherals to laptop or notebook computers. The standard ISA, EISA, PCI, and VLB buses are too large for laptop computers; the PCMCIA PC Card is an accepted notebook standard.

Rockwell Automation is a registered member of PCMCIA and developed the PCMK Communication Card (cat. no. 1784-PCMK/B) under the PC card 95 standard – February 1995.

What is a PC Card?

Since personal computers have become smaller, a need for smaller storage media developed. The PC card is a small form-factor adapter that adds memory, storage, and I/O capabilities to these smaller computers.

All PC cards measure the same length and width, 54.0 mm x 85.6 mm (2.13 in. x 3.37 in.), but differ in thickness at the center. The thickness at the connector end and along the rails is the same for all types of PC cards.

Enhancements to the 1784-PCMK/ B Card

The 1784-PCMK/B card contains new enhancements that were not contained in the 1784-PCMK/A card. The PCMK/B card:

- is a 16-bit card.
- connects with a new series of cables using locking connectors.
- will work with newer notebook computers that use PCI bus technology.
- has new updated drivers.
- can be used in conjunction with the PCMK/A card.

Dual PCMK cards are not supported on all operating systems. Refer to specific operating system chapters for details.

- contains DH+ support at 230 Kbps.
- contains remote I/O scanner capabilities.

IMPORTANT

The PCMK/B card will not connect with the Series A cables. Please verify that you are using the correct Series B cables when connecting to the PCMK/ B card.

Appendix A

Specifications

PCMK Communications Card - 1784-PCMK

Attribute:	Value:
Form-factor	PCMCIA Type II form-factor network adapter card Compliant to PCMCIA PC card standard - February 1995 Compliant to PCMCIA Card and Socket Services Standard, Version 2.1
Wiring Category ⁽¹⁾	3 - on communications ports
Enclosure	None (open-style)

⁽¹⁾ Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.

Environmental Specifications

Attribute:	Value:
Card Power	160 mA @ 5 VDC
Power Dissipation	0.8 W
Heat Dissipation	2.73 BTU/hr
Conducted RF Immunity	IEC 61000-4-6: 10V rms with 1 kHz sine-wave 80%AM from 150 kHz...30 MHz
EFT/B Immunity	IEC 61000-4-4: ±1 kV at 5 kHz on communications ports
Emissions	CISPR 11: Group 1, Class A
Operating Temperature	IEC 60068-2-1 (Test Ad, Operating Cold) IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 0...55 °C (32...131 °F)
Radiated RF Immunity	IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80%AM from 30...2000 MHz 10V/m with 200 Hz 50% Pulse 100%AM at 900 MHz 10V/m with 200 Hz 50% Pulse 100%AM at 1890 MHz 1V/m with 1 kHz sine-wave 80%AM from 2000...2700 MHz
Shock, Nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g
Shock, Operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g