

APPLICATION NOTE

www.ittcannon.com

Cannon Express Card

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Features

We are offering two standard cover set formats for ExpressCard modules: the ExpressCard/34 module which is 34 mm wide and the ExpressCard/54 module characterized by its 54 mm width. Both module formats are 5 mm thick, the same as the Type II PC Card. The module length of the ExpressCards is 75 mm, which is 10.6 mm shorter than a standard PC Card. Both ExpressCard/34 modules and ExpressCard/54 modules support a universal slot configuration that allows either ExpressCard/34 or ExpressCard/54 modules to function in the same slot.

Benefit to the Customer

ExpressCard modules give users the ability to add a wide variety of 'plug 'n' play' applications to their computers, including memory, local area network (LAN), wireless wide area network (WWAN), Wireless (Bluetooth), memory adapters, parallel adapters, serial adapters, TV tuners, smart card readers, instrumentation, 1394A&B and serial ATA (SATA). Smaller form factor enables integration into more devices.

Card Type	PC-Card		Express Card	
	Normal	Cardbus	Model 34	Model 54
Version				
Operating Speed	10 MHz	33 MHz	2.5 GHz	2.5 GHz
Dimension (mm)				
Length	85.6	85.6	75.0	75.0
Width	54.0	54.0	34.0	54.0
Thickness	3.3/5.0/10.5	3.3/5.0/10.5	5.0	5.0
Connector				
# of Contacts	68 Pins	68 Pins	26 Pins	26 Pins
Mating Cycle	10,000	10,000	10,000	10,000

The Challenge

ExpressCard™ technology is the latest high-performance, hardware expansion standard for desktop and notebook computers. The ExpressCard solution accommodates the replacement of conventional parallel buses for I/O devices with scaleable, high-speed serial interfaces. Hardware engineers are now being tasked to design cards that meet this new standard as a replacement for the current line of PC-Cards used in their products.

The ITT Solution ...

We are introducing our own line of ExpressCard cover sets and 26 pin connectors. For custom applications our new product offering is supported by experienced teams of ITT engineers who are experts in computer based design; molding and analysis. Our cover sets and connectors meet the requirements set forth by the PCMCIA standards committee.

Applications

- Notebook/Desktop Computers
- Storage Media
- Wireless and Wired Communications
- Set-top Boxes
- Memory Card for Servers
- Security ID and Biometric Devices
- Handheld Scanners

For application assistance, please contact:

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