

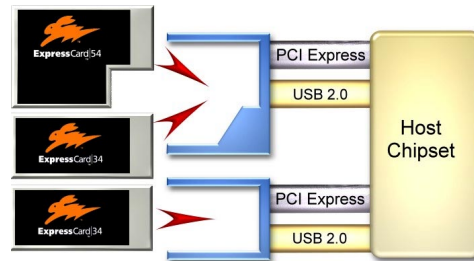


ExpressCard™ Technology

The New Standard for High-Performance, Low-Cost I/O Expansion for Desktop and Mobile Systems



The ExpressCard standard promises to deliver high-performance, modular expansion to desktop and notebook computers at a lower cost and in a smaller form factor. Consumers will be able to add memory communications and security devices by simply inserting ExpressCard modules into their systems. The new standard supports sealed-box expandability in desktops and thinner notebook design.



The ExpressCard system interface supports a direct connection to the chipset. The slot configuration supports both card sizes.

Key Features

- Leverages PC Card technology
 - Reliability and durability
 - Hot plug-n-play and auto-configuration
- Roughly half the size of today's PC Card
- Supports both USB 2.0 and PCI Express* in each slot
 - Increased bandwidth while reducing the number of signals
- Lower cost
 - No host controller
 - New connector technology
- Requires less power
- Replaces CardBus as the preferred I/O solution

Two Sizes

ExpressCard/34: 34 mm (W) x 75 mm (L) x 5 mm (H)

ExpressCard/54: 54 mm (W) x 75 mm (L) x 5 mm (H)

As compared to CardBus (Type II): 54 mm (W) x 86 mm (L) x 5 mm (H)

Card Interfaces

Connector Style

- 26 pin beam on blade

Bandwidth support

- USB 2.0: 480 Mb/s
- PCI Express* (x1): 2.5Gb/s/direction

Power available to card (average)

- 3.3V: 1000mA
- 3.3V aux: 250 mA
- 1.5V: 500 mA

Max current combined across all power rails: Up to 1750mA

For More Information

www.expresscard.org

Industry Support

100+ PCMCIA member companies, including Dell, Hewlett Packard, IBM, Intel, Lexar Media, Microsoft, SCM Microsystems and Texas Instruments.

Availability

Mid-2004

Expected Applications

Interface	Target Applications
PCI Express	Wired LAN Broadband modems TV Tuners/Decoders I/O Adapters (e.g. 1394a/b) Magnetic Disk Drives
USB 2.0	Wired & Wireless WAN Wireless PAN Flash Memory Flash Card Adapters Security Legacy I/O (PS2, serial, parallel) Optical Disk Drives GPS Receiver

PCMCIA

The PCMCIA is the leading trade association for plug in modular I/O expansion for personal computers and notebooks. Founded in 1989, the association developed the PC Card 16 and CardBus standards.