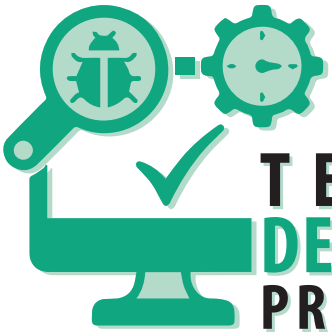
amfeltec™

20 Years ANNIVERSARY



TESTING
DEBUGGING
PRODUCTION

Amfeltec's Engineering Tools for *Testing , Debugging & Production*

This group of Amfeltec tools was created with Engineers in mind – each tool's purpose is to simplify their day-to-day work, and make previously cumbersome or impossible tasks easily achievable.

Engineers in small-medium-sized companies especially prefer to leverage some or all of these tools, typically when managing their new product hardware / software development; and in OEM production testing. As you will shortly see, all these products are unique; they come from decades of our own engineering, system development and production experience.

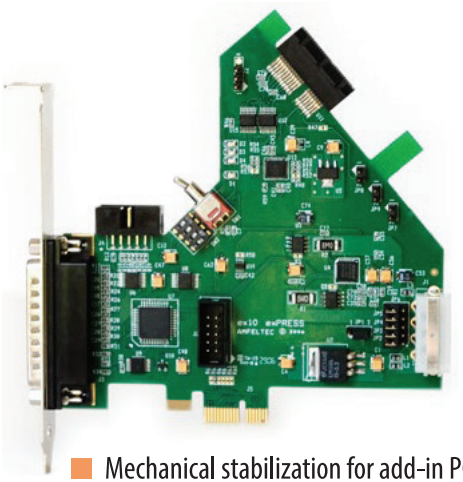
- **For today's OEM**, these tools help eliminate common board testing problems: a prime example is the variety of modern peripheral board types: attributes such as form factor, interface type and speed tend to differ quite a bit, increasing testing complexity.
  Our tools minimize the production testing time.

- **For engineering companies**, our tools facilitate a convenient way to debug and verify new product prototypes during the development phase.

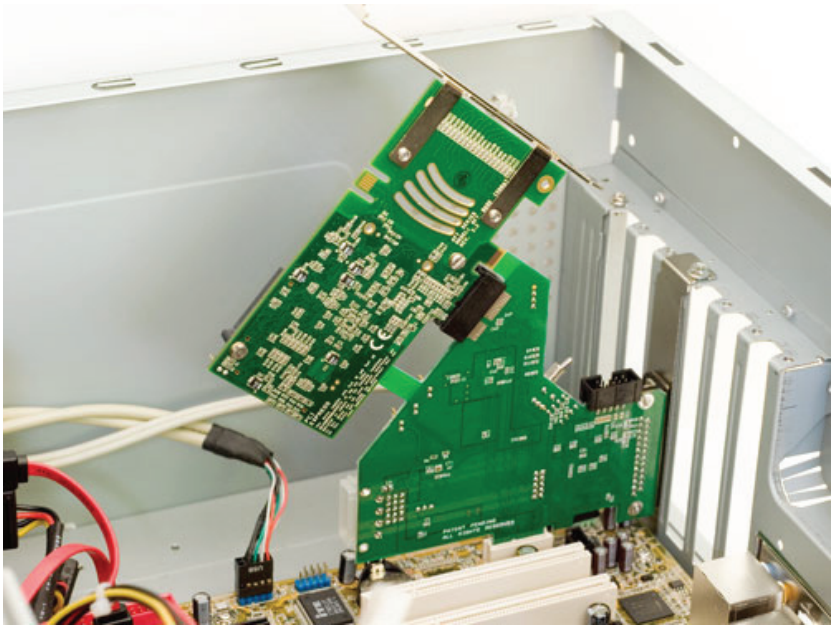
- We use all these tools in our own production facility, for testing all of Amfeltec's products.

SKU-006-01

x1 PCI Express Extender



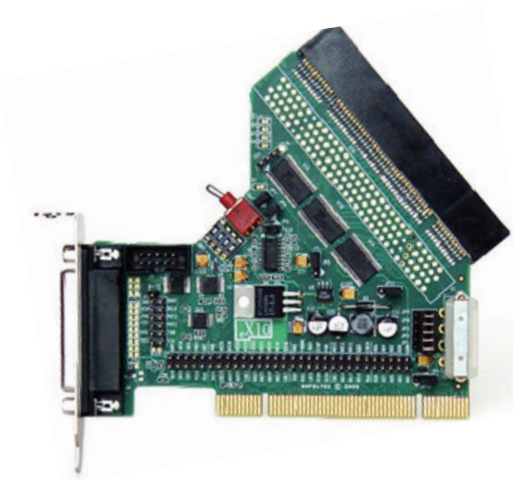
- Provides easy access to UUT in any computer case
- Integrated *Universal Byte Blaster*
- Supports FPGA / CPLD programming
- Protects your host computer
- Supports hot-swap operation
- Mechanical stabilization for add-in PCIe board to facilitate bracket-less mount



PCI Express Extender with tested PCI Express board

SKU-001-0x

32-bit PCI Extender



- Provides easy access to UUT in any computer case
- Integrated *Universal Byte Blaster*
- Supports FPGA / CPLD programming
- Supports hot-swap operation
- Protects your host computer

SKU-013-01

PCI to PMC (PCI Mezzanine Card) Extender

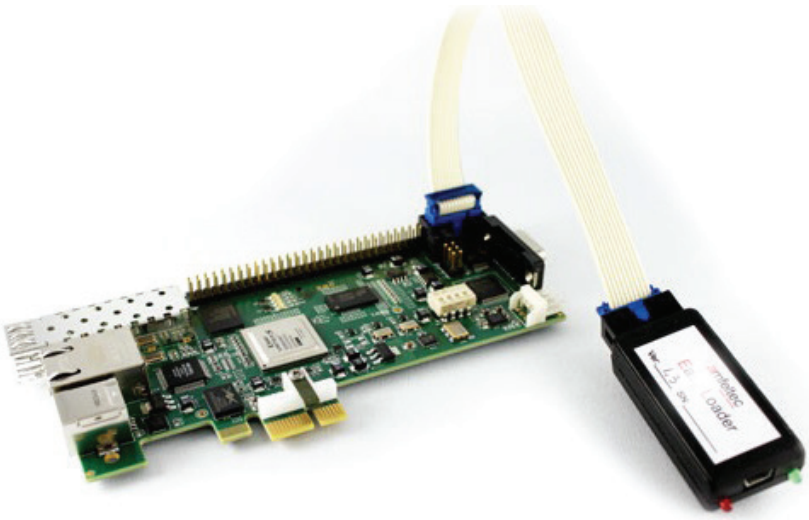
- Provides easy access to UUT in any computer case
- Integrated *Universal Byte Blaster*
- Supports FPGA / CPLD programming
- Supports hot-swap operation
- Protects your host computer

SKU-018-01

In-Circuit Programmer / Loader

- Avoid preprogramming during assembly
- Avoid "first article sign-off"
- Update to latest firmware before shipping
- Cost-effective solution
- Standalone device
- Powered from target device (1.2V – 5V)

- Supports all major FPGA/CPLD vendors
- Supports programming/loading JTAG, SPI, I2C-based devices (signals: 1.2V - 5V)
- Supports TI, Microchip, SiliconLabs MCPU programming
- Field-upgradeable firmware
- Supports connection to the PC "Terminal" for log output and for Programmer/Loader configuration (via USB interface)



In-circuit Programmer during programming

SKU-016-XX

- Mechanical stabilization for add-in PCI Express (UUT) boards to facilitate bracket-less UUT mount
- Protects your host computer
- Overcurrent protection
- UUT hot-swap operation
- Easy access to any part of UUT during normal operation
- Real-time current monitoring on 12V and 3.3V (via indicator on the extender) and logging via USB link

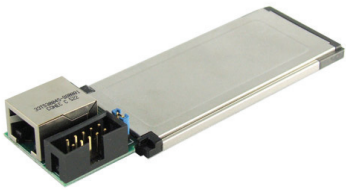
PCI Express Cable Extender

PCI Express Cable Extender
with PCI Express Host board

x1 PCI Express Adapter Block

x1 PCI Express Host Board

MiniPCI Express Host Board

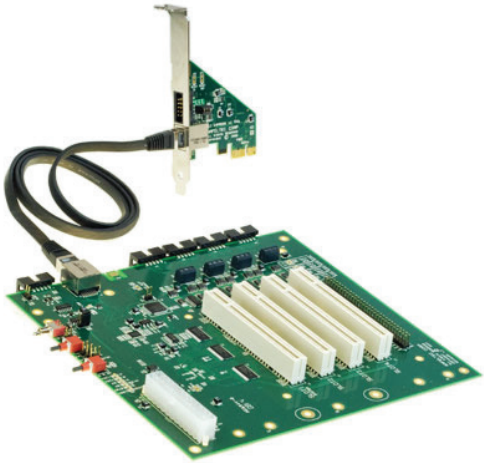


ExpressCard® Host board

SKU-014-01

32-bit PCI Test Backplane

The Backplane expands x1 PCIe, MiniPCIe or ExpressCard® interface of the Host computer into four PCI circuits via a 7 ft CAT7 cable.

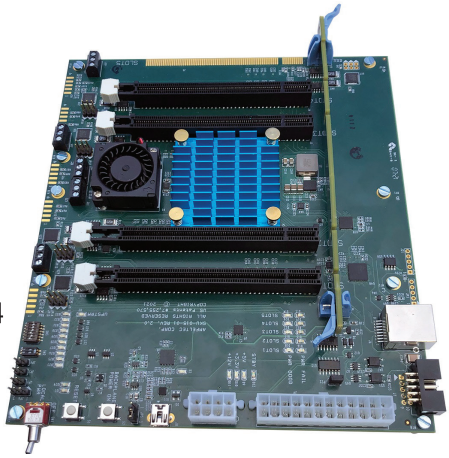


- Protects your host computer
- Easy access to UUT in any computer case
- Per-slot overcurrent and overvoltage protection
- Easy"Plug & Play" installation, no driver needed
- Supports hot-swap operation
- Significantly reduces PCI board's production testing time

SKU-015-01

PCI Express Gen3 Test Backplane

The Backplane expands x1 PCIe, MiniPCIe or ExpressCard® interface of the Host computer into four x 16 PCIe Gen 3 circuits via a 5ft / 10 ft. CAT7 cable.

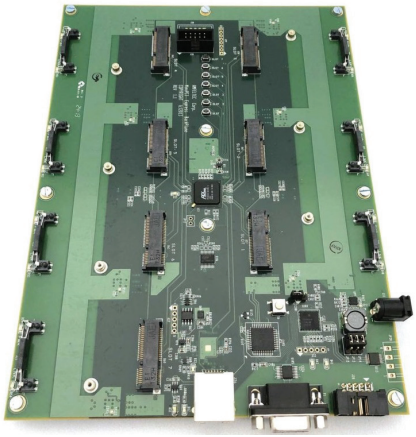


- Protects your host computer
- Per-slot overcurrent and overvoltage protection
- Easy "Plug & Play" installation, no driver needed
- Supports bifurcation x8/x8 and x4/x4/x4/x4
- Supports Hot-swap operation
- Significantly reduces PCIe boards' production testing time

SKU-017-0x

MiniPCI Express Test Backplane

The Backplane expands x1 PCIe , MiniPCe or ExpressCard interface of the Host computer into seven MiniPCIe circuits via a 7 ft. CAT7 cable.

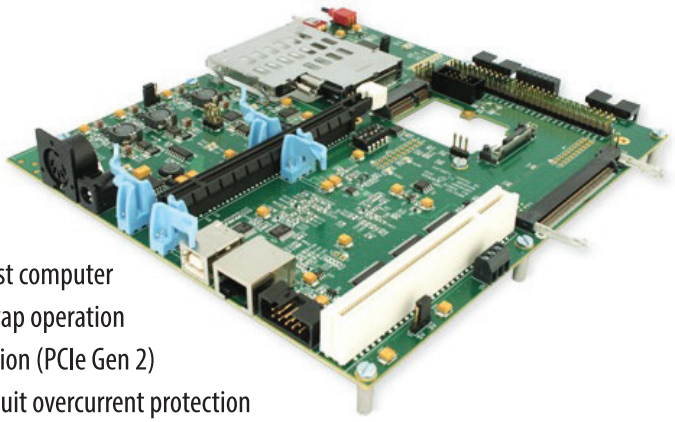


- Reduces MiniPCIe boards'production test time
- PCIe, MiniPCIe or ExpressCard® Host board
- Protects your host computer
- 5 Gbit/sec operation (PCI Gen2)
- Supports hot-swap operation
- Overcurrent protection

SKU-047-0x

Multi-Interface Test Backplane

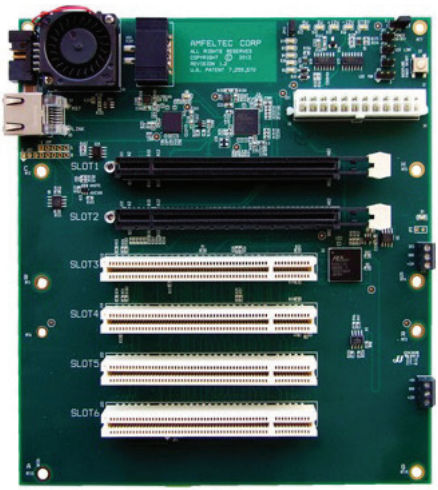
The Backplane expands x1 PCIe, MiniPCIe or ExpressCard® interface of the Host computer into PCI, MiniPCI, PCIe, MiniPCIe, and/or ExpressCard® circuits via a 7 ft. CAT7 cable.



- Protects your host computer
- Supports hot-swap operation
- 5Gbit/sec operation (PCIe Gen 2)
- Provides per-circuit overcurrent protection

SKU-075-0x

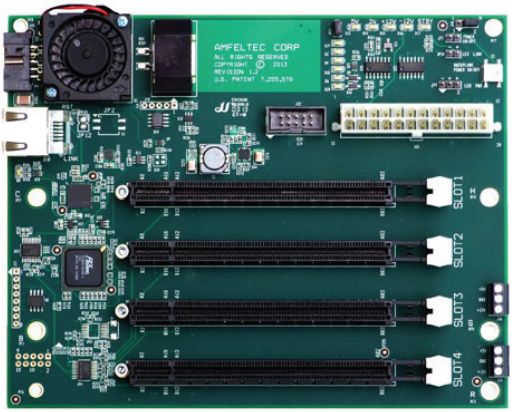
PCI/PCI Express Expansion Backplane



- Easy "Plug & Play" installation, no drivers nedded
- Four 32-bit PCI slots 33/66 MHz
- Two xl6 PCIe Gen 2 slots
- PCIe/MiniPCIe/ExpressCard® Host board
- 5ft. CAT6 cable (optionally 10 ft. cable)
- Dimensions: 171 mm x 192 mm

SKU-076-0x

PCI Express Expansion Backplane



- Easy "Plug & Play" no drivers nedded
- Four xl6 PCIe Gen 2 slots
- PCIe/MiniPCIe/ExpressCard® Host board
- 5ft. CAT6 cable (optionally 10 ft. cable)
- Dimensions: 171 mm x 135 mm

About Us

Amfeltec Corporation is a leading Canadian designer and manufacturer of complex and innovative electronics solutions, based in Stouffville, Ontario.

Our product lines include:

- system monitoring and crash recovery products
- carrier boards (SSD, wireless, video)
- telecommunication solutions
- SSD boards
- computer hardware expansion products
- testing, debugging and production tools

Amfeltec places a special focus on high-speed inter-connectivity technologies.

Since its incorporation in 2005, *Amfeltec* has served various customer segments, ranging from small businesses and individual consumers to multinational corporations and government agencies, including the defence industry and electronics companies specializing in the development of high-performance, custom-built computer systems.

Amfeltec's multi-decade industry experience, engineering expertise, innovation track record, and a diverse product portfolio make the company a solution provider of choice for many enterprises worldwide.

Notable *Amfeltec* product families include *Squid* Carrier Board(™), *Piranha* USB Telecom Adapter(™), *Arowana* PCIe SSD Board(™), *AngelShark* Carrier Board(™) and *PocketShark*(™) Batteryless System Loggers.

Most of our products are covered by one or more United States patents.

All our products are designed and manufactured in Canada.

amfeltec™

Designed and Manufactured in Canada

This product may be covered by one or more of the following U.S. patents:
7,186,145; 7,255,570; 7,537,491; 7,850,475; 7,908,504; 8,351,583; 8,483,364; 9,996,495; 10,481,660; 10,664,431.

Other U.S. patents pending

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