

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

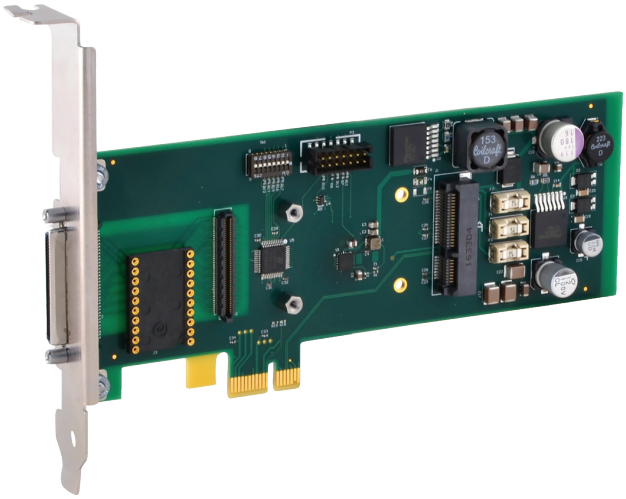
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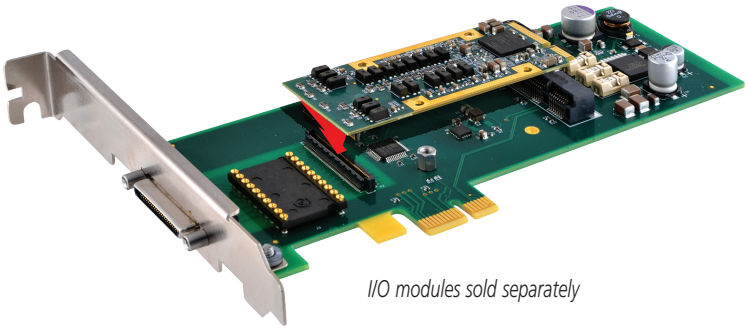
Find the *Acromag / Xembedded / Xycom APCe7040* at our website: *Click HERE*

AcroPack® Carriers

APCe7000 Series PCI Express Carrier Cards for AcroPack® Modules

CE 2 YEAR WARRANTY RoHS Compliant





I/O modules sold separately

One AcroPack or mini-PCIe mezzanine module slot ◆ Low-profile PCIe carrier card

Description

Model: APCe7012E-LF

The AcroPack® product line updates our popular Industry Pack I/O modules with a PCIe interface format. This tech-refresh design offers a compact size, low-cost I/O, the same functionality and memory map of the existing Industry Pack modules.

This board interfaces one AcroPack mezzanine module to a PCI Express bus on a PC-based computer system.

Select I/O modules from Acromag's offering or use most third-party mPCIe compliant modules.

Key Features & Benefits

- One AcroPack or mini-PCIe module slot
- PCI Express compliant
- Plug-and-play carrier configuration and interrupt support
- Fused +1.5V, +3.3V, +5V, +12V, and -12V DC power is provided. A fuse is present on each supply line serving each AcroPack module.
- Front panel 68-pin CHAMP 0.8mm connectors for field I/O signals
- Optional isolated power supplies. Support for AcroPacks requiring ±12 Volt isolated power.
- Extended temperature range
- DIP switch card identification
- Standard 14-pin Xilinx JTAG programming header
- Software development tools for VxWorks®, Linux®, and Windows® environments.

Acromag® THE LEADER IN INDUSTRIAL I/O

Tel: 844-878-2352 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

Bulletin #8400-991c

AcroPack® Carriers

ISO9001
AS9100
MADE IN USA

Performance Specifications

PCI Express Bus Compliance

This device meets or exceeds all written PCI Express specifications per revision 2.1.

The host port consists of one PCIe lane, each of the mini-PCIe sites have one lane each.

I/O Interface

Connectors
P1 (PCIe Bus): PCIe V2.1.
J3 (Carrier Field I/O): 68-pin, CHAMP
(TE Connectivity 5796055-1).
P2,(AcroPack Field I/O): 100-pin socket
(Samtec SS5-50-3.00-L-D-K-RT).
J1, (Mini-PCIe): 52-pin socket
(TE Connectivity 1759547-1).
P3 (JTAG): 14-pin header (Molex 87832-1420).

Gold plating in the connection area, M2.5 screws and spacers provide excellent connection integrity and stability for harsh environments.

Ease of Use

A standard 14-pin Xilinx JTAG programming header is provided for programming and debugging the FPGA on some AcroPack modules.

Physical

Physical Configuration
PCIe x1 low-profile
Length: 6.3 inches (160 mm).
Height: 2.711 inches (68.86 mm).
Includes standard and low-profile brackets.

Environmental

Operating temperature
-40 to +85°C

Storage temperature
-55 to +125°C.

Relative humidity
5 to 95% non-condensing.

Power
+3.3 Volts (±10%): 0.55mA typical
+12 Volts (±5%): 25mA Typical

The APCe7012E-LF has DC/DC converters to provide the power supply voltages to the AcroPack modules that are not present at the host interface. The +1.5 Volt supply is sourced from the +3.3 Volt host power. The +5 Volt and -12 Volt supply is sourced from +12 Volt host power.

Ordering Information

Carrier Card

APCe7012E-LF: AcroPack carrier card for AcroPack or mPCIe modules, one module slot.

See Acromag.com/AcroPacks for a full list of I/O modules.

Accessories

5025-288: Termination panel, DIN-rail mountable, SCSI-3 connector, 68 screw terminals.

5028-420: Round cable, shielded, male SCSI-3 connector to 68-pin CHAMP. 0.8mm, 2 meters long.

5028-615: Cable, 68-pin CHAMP to pigtail, 36 inches long.

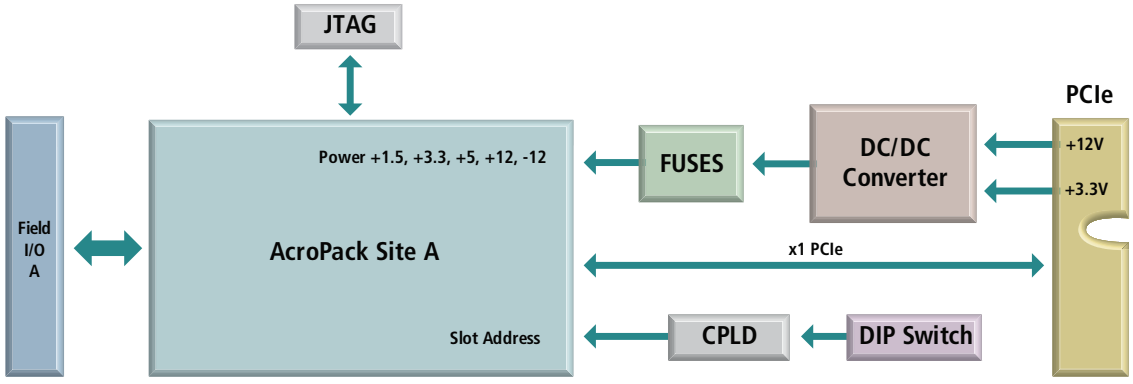
5028-616: Cable, 68-pin CHAMP to pigtail, 70 inches long.

Software *(see software documentation for details)*

APSW-API-VXW: VxWorks software support package

APSW-API-WIN: Windows DLL driver software support pkg

APSW-API-LNX: Linux® support (website download only)



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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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