Embedded Solutions for the Next 25 Years

Acromag Redefines SWaP-C With Our New AcroPack® I/O Platform

Industrial / Military Ready mPCIe-based Mezzanine Modules

The AcroPack® product line updates our popular Industry Pack I/O modules by using the mPCIe interface format. We added 19mm and a 100 pin connector to provide up to 50 isolated rear I/O signals, giving you a tremendous amount of capability on an *Extremely Small Footprint - Without Cabling!*

Designed for COTS applications, these general purpose I/O modules deliver high-speed and high-resolution A/D and D/A, digital I/O, counter/timers, communication (Ethernet, serial, MIL-STD-1553) and reconfigurable FPGA functions.

Whether it's server-based lab activities or ship-based test systems, contact Acromag to discuss how AcroPacks can help you with tomorrow's applications, today.

Size = 70mm x 30mm

Weight = .05 oz. avg

and

Power = <5 watts per module

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Cost = Starting at $395

Key Features Include:

- A/D, D/A, digital I/O, counter/timers, communication (Ethernet, Serial, MIL-STD-1553), and reconfigurable FPGA options

- Low-power consumption

- Solid-state electronics

- -40 to 70°C standard operating temperature

- Conduction-cooled option available

- Mix and match I/O combinations in a single slot by using our CompactPCI® Serial, Mini-ITX Com Express Type 10, PCIe, XMC or VPX carriers

*AcroPack modules **snap** onto AcroPack carriers, **eliminating** messy ribbon cables.*

NEW!

*These modules are just **70mm** long.*

ISO9001
AS9100

MADE IN USA

Visit **Acromag.com/AcroPacks**
TO LEARN MORE

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AcroPack® Series Selection Guide

Series Number	Inputs	Outputs	Comments
Analog Modules			
AP220 / AP231		16 channels	12-bit / 16-bit DAC; -40 to +85°C
AP225 / AP235		16 channels	12-bit / 16-bit DAC with waveform memory; -40 to +75°C
AP226 / AP236		8 isolated channels	12-bit / 16-bit DAC; -40 to +85°C
AP323	High-density; 20 differential or 40 single-ended channels		16-bit ADC; -40 to +85°C
AP341	Eight simultaneous sample-and-hold channels		14-bit ADC; -40 to +85°C
AP342	Six simultaneous isolated channels		14-bit ADC; -40 to +85°C
Digital Modules			
AP408	32 bidirectional high-voltage channels		TTL, 0 to 60V DC; -40 to +85°C
AP418	16 channels		Source/sink; -40 to +85°C
AP441	32 isolated channels		-40 to +85°C
AP445		32 isolated bipolar solid-state relays	0 to ±60V voltage range; -40 to +85°C
AP471	48 bidirectional channels, TTL	48 bidirectional channels, CMOS	0 to 5V DC; -40 to +85°C
Counter/Timer Modules			
AP482 / AP483 / AP484	Ten TTL channels / Five TTL and three RS422 channels / Six RS422 channels		32-bit; -40 to +85°C
Communication Modules			
AP500 / AP520	Four / eight RS232 ports		256-byte FIFOs; -40 to +85°C
AP512 / AP513	Four isolated asynchronous, full duplex RS232 / RS422B serial ports (supports RS485)		256-byte FIFOs; -40 to +85°C
AP522	Eight RS422/485 asynchronous serial ports		256-byte FIFOs; -40 to +85°C
AP560A	Four isolated CAN channels		-40 to +71°C
AP570	One dual redundant MIL-STD-1553 communication channel		Single or multi-function options; -40 to +85°C
AP580	Single Ethernet port		1Gb Ethernet with optional PoE; -40 to +70°C
Reconfigurable Xilinx® FPGA Modules			
APA7-501 / 502 / 503 / 504	48 TTL / 24 RS485/422 / 24 TTL & 12 RS485/422 / 24 LVDS channels. 52k logic cells.		Artix-7®, -40 to +85°C
APZU-301 / 303 / 304	28 TTL / 20 TTL and three RS485/422 / 14 LVDS channels. Up to 154k logic cells.		Zynq® Ultrascale + MPSoC. Dual-core ARM Cortex A53-based application processor unit (APU).
Multi-function Modules			
AP730 / AP731	16 or 12-bit bidirectional digital I/O, one multi-function 32-bit counter/timer. Eight analog differential inputs, four analog outputs.		
Carrier Cards			
ACEX4041	COM Express Type 10 Mini ITX, holds four AP modules. Front panel I/O		Development Lab System option, -40 to +85°C
APCe7012 / 22 / 40 / 43	PCI Express carrier; holds up to four AP modules	Front panel I/O	APCe7043 is 3/4-length ; -40 to +85°C
ACPS3310 / 20	3U CompactPCI Serial carrier; holds two AP modules	Front or rear panel I/O	Isolated, -40 to 85°C
VPX4500	3U VPX Bus carrier; holds three AP modules	Front or rear panel I/O	Air or conduction-cooled options; -40 to +85°C
VPX4520 / 21	6U VPX Bus carrier; holds four AP modules and one XMC module	Front or rear panel I/O	Air or conduction-cooled options; -40 to +85°C
XMCAP2020 / 21 / 22	XMC carrier; holds two AP modules	Front or rear panel I/O	Air cooled; -40 to +70°C
Software Support			
APSW-API-VXW / WIN / LNX	VxWorks™ software support package / Windows® DDL driver software support package / Linux® support (website download only)		