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

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

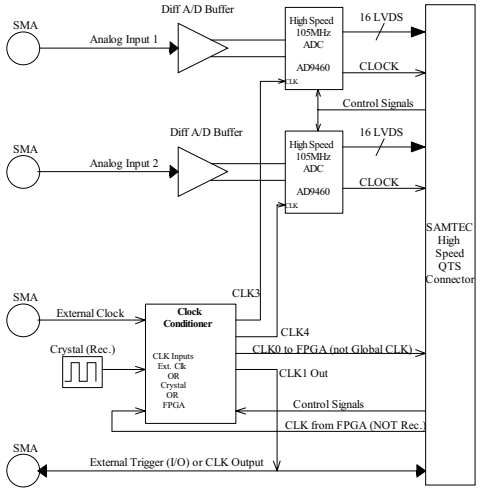
Find the *Acromag PMC-LX40* at our website: ***Click HERE***

Extension I/O Modules

AXM-A30 Analog I/O Extension Modules for PMC FPGA Boards

2 YEAR WARRANTY





High Speed Analog Input ◆ 2 Differential Channels ◆ 2 16-bit A/D Channels

Description

AXM Series extension modules offer numerous I/O options for Acromag's PMC modules with configurable FPGAs. These extension modules plug into the front mezzanine on Acromag's PMC-LX/SX (Virtex®-4 FPGA), and PMC-VLX/VSX/VFX (Virtex-5 FPGA) modules.

AXM-A30 Analog Input

This module features two 105MHz 16-bit A/D channels. An external clock and trigger can be used to control sampling.

An internal precision clock conditioner provides the functions of jitter cleaning/reconditioning, multiplication, and distribution of a reference clock.

Each clock distribution block includes a programmable divider, a phase synchronization circuit, and a programmable delay. This allows multiple integer-related and phase-adjusted copies of the reference to be distributed to multiple system components.

Key Features & Benefits

- Analog Input
- Input configuration: Two differential channels using two Analog Devices AD9460 A/D converter
- A/D resolution: 16 bits
- Input range: 3.4V peak-to-peak, centered at 0V, into a 50 ohm load
- External clock input: 3.3V peak-to-peak
- Input clock range:1-105MHz
- Maximum throughput rate:
  1 channel (max.): 9.5nS (105MHz)
  2 channels (max.): 9.5nS (105MHz)
  A/D trigger: External source, FPGA controlled
- Input clock controller:Precision clock conditioner combines the functions of jitter cleaning/reconditioning, multiplication, and distribution of a reference clock
- Signal-to-noise ratio: 69dB (25°C) typical
- Signal-to noise and distortion: 67dB (25°C) typical
- General purpose I/O: Low voltage TTL



AXM modules attach to PMC Modules with user-configurable FPGAs.

Acromag® THE LEADER IN INDUSTRIAL I/O

Tel 248-295-0310 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

Extension I/O Modules

AXM-A30 Analog I/O Extension Modules for PMC FPGA Boards

2 YEAR WARRANTY

Performance Specifications

AXM-A30 Analog Input

Input configuration
Two differential channels using two Analog Devices AD9460 A/D converter.

A/D resolution
16 bits.

Input range
3.4V peak-to-peak, centered at 0V, into a 50 ohm load.

External clock input:
3.3V peak-to-peak.

Input clock range:
1-105MHz.

Maximum throughput rate
1 channel (max.): 9.5nS (105MHz).
2 channels (max.): 9.5nS (105MHz).

A/D trigger
External source, FPGA controlled.

Input clock controller:
Precision clock conditioner combines the functions of jitter cleaning/reconditioning, multiplication, and distribution of a reference clock.

Signal-to-noise ratio
69dB (25°C) typical.

Signal-to-noise and distortion
67dB (25°C) typical.
General purpose I/O: Low voltage TTL.

Physical

Acromag's AXM Series extension modules offer numerous I/O options for Acromag's PMC modules with configurable FPGA. These extension modules plug into the front mezzanine on Acromag's PMC-LX/SX (Virtex®-4 FPGA), and PMC-VLX/VSX/VFX (Virtex-5 FPGA) modules. Analog and digital I/O AXM modules are sold separately.

Size
11.5 mm high x 31.0 mm deep x 74.0 mm wide (0.453 inches x 1.220 inches x 2.913 inches).

Stacking height
5.0 mm (0.197 inches).

Weight
41.3 g (1.46 oz).

Connectors
Front field I/O: Four SMA PCB jack female receptacle connectors.

Complies with PMC Specification P1386.1 for a single-width PMC module when installed on a supported PMC module.

Environmental

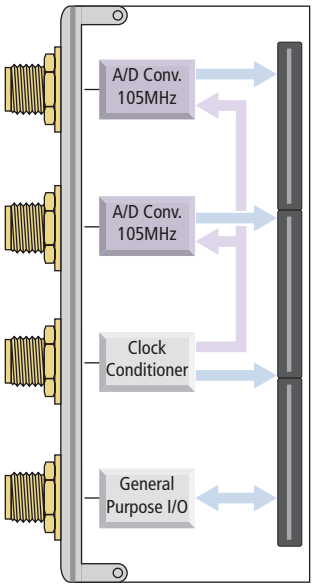
Operating temperature
-0 to 70°C.

Storage temperature
-55 to 105°C.

Relative humidity
5 to 95% non-condensing.

Power
4.5 Watts typical.

MTBF
1,972,542 hrs. at 25°C, MIL-HDBK-217F, Notice 2.



Ordering Information

AXM Plug-In I/O Modules

For more information, see www.acromag.com.

AXM-A30
2 analog input channels

AXM-??

Custom I/O configurations available, call factory.

Accessories

For more information, see www.acromag.com.

XMC FPGA Modules

PMC FPGA Modules

ISO9001
AS9100
MADE IN USA

Acromag
THE LEADER IN INDUSTRIAL I/O

Tel 248-295-0310 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

All trademarks are property of their respective owners. Copyright © Acromag, Inc. 2019. Data subject to change without notice. Printed in USA 10/2019.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

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

ARTISAN® TECHNOLOGY GROUP