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**Data Sheet**

August 15, 2026

ACROMAG

## Acromag APC8620A PCI Bus IP Carrier Card

Acromag APC8620A PCI Bus Industry Pack Carrier Card Five Slots The Acromag APC8620A is a non-intelligent PCI carrier holding up to five single-size Industry Pack modules (or two double-size plus one single). OEM APC8620A datasheet rates 8/32 MHz IP operation, PCI Rev 2.2 compliance, filtered/fused power to each IP, and two interrupt channels per module. Building custom high-density I/O assemblies in PC-based test and industrial systems using Acromag or third-party ANSI/VITA 4 IP modules. Five IP module slots. Supports IP I/O ID INT and MEM spaces. The Acromag APC8620A is a non-intelligent PCI carrier holding up to five single-size Industry Pack modules (or two double-size plus one single). OEM APC8620A datasheet rates 8/32 MHz IP operation, PCI Rev 2.2 compliance, filtered/fused power to each IP, and two interrupt channels per module. Building custom high-density I/O assemblies in PC-based test and industrial systems using Acromag or third-party ANSI/VITA 4 IP modules. Five IP module slots. Supports IP I/O ID INT and MEM spaces. Instrument Type: Non-intelligent PCI bus Industry Pack carrier.



MODEL

**Acromag  
APC8620A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**APC8620A**

LISTING

<https://aumictechlabs.com/products/apc8620a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Acromag APC8620A is a non-intelligent PCI bus carrier card that interfaces Industry Pack (IP) modules with PCI bus systems in PC-based computers. It enables modular I/O assembly through

five configurable IP module slots, supporting either five single-size modules or two double-size and one single-size module. A single populated carrier replaces multiple dedicated function PCI boards, delivering cost-effective custom I/O configurations with analog input/output, digital input/output, and serial I/O functions.

### Technical Specifications

#### IP Module Architecture

Five ANSI/VITA 4 compliant IP module slots (A-E) Supports third-party manufacturer modules IP module I/O space: 16 and 8-bit addressing with 128 byte values per module IP module ID space: 16 and 8-bit addressing, Type I 32 bytes MEM and INT spaces supported Power and Electrical +3.3 V ( $\pm 10\%$ ): 130 mA typical, 50 mA maximum +5 V ( $\pm 5\%$ ): 30 mA typical, 50 mA maximum  $\pm 12$  V supplied to each IP module Two interrupt channels per IP module

#### Physical Characteristics

Form factor: PCI Universal Card (3.3 V or 5 V compatible) Length: 312.0 mm (12.283 inches) Height: 106.68 mm (4.200 inches) Board thickness: 1.59 mm (0.062 inches) Maximum component height: 9.65 mm (0.380 inches) Maximum height under IP modules: 4.57 mm (0.180 inches) 50-pin male header connectors (A-E field I/O) Front access I/O mounting

#### Environmental and Reliability

Operating temperature: 0 to 70°C Storage temperature: -55 to 100°C Relative humidity: 5–95% non-condensing MTBF: 413,003 hours at 25°C (MIL-HDBK-217F, notice 2)

#### Key Features

Plug-and-play carrier configuration and interrupt support Full IP module register and data access via software Supervisory circuit reset generation Non-intelligent architecture reduces cost and complexity

#### Software Support

RTOS VxWorks, QNX, Linux Windows DLL for 2000/XP/Vista/7 32-bit systems

#### Compatibility & Integration

The APC8620A accepts ANSI/VITA 4 compliant modules from Acromag and third-party manufacturers, enabling flexible mixed-function configurations while maintaining standard register and data access across all supported software environments.

## APC8620A Characteristics / Specifications

| PARAMETER                 | VALUE                                                    |
|---------------------------|----------------------------------------------------------|
| Model                     | APC8620A                                                 |
| Instrument Type           | Non-intelligent PCI bus Industry Pack carrier            |
| Ip Slots                  | five single-size or two double-size plus one single-size |
| Ip Clock Support          | 8 MHz or 32 MHz per ANSI/VITA 4-1995                     |
| Ip Io Space               | 16 and 8-bit 128 byte values per IP                      |
| Ip Id Space Type I        | 32 bytes per IP consecutive even addresses               |
| Ip Id Space Type II       | 32 words per IP via D16                                  |
| Ip Memory Space           | up to 8 Mbytes per IP module                             |
| Interrupts Per Ip         | two requests mapped to PCI INTA#                         |
| Pci Compliance            | PCI local bus Rev 2.2                                    |
| Carrier Control Mapping   | 1 Kbyte PCI memory space                                 |
| Ip Memory Window Optional | 64 MB PCI memory space                                   |
| Data Transfer Widths      | 32 16 and 8-bit slave                                    |
| Operating Temperature     | 0 to 70 C                                                |
| Storage Temperature       | -55 to 100 C                                             |
| Relative Humidity         | 5 to 95 percent non-condensing                           |
| Power Plus 3.3 V Typical  | 130 mA                                                   |
| Power Plus 5 V Typical    | 30 mA                                                    |
| Power Plus 5 V Maximum    | 50 mA                                                    |
| Plus Minus 12 V           | provided to each IP module                               |
| Mtbf                      | 413003 hours at 25 C MIL-HDBK-217F notice 2              |
| Board Length              | 12.283 inches (312.0 mm)                                 |
| Board Height              | 4.200 inches (106.68 mm)                                 |
| Board Thickness           | 0.062 inches (1.59 mm)                                   |
| Maximum Component Height  | 0.380 inches (9.65 mm)                                   |

| PARAMETER                   | VALUE                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max Height Under Ip Modules | 0.180 inches (4.57 mm)                                                                                                                                                             |
| Field Io Connectors         | 50-pin male headers<br>AthroughE Notes From Acromag APC8620A PCI Bus IP Carrier Card datasheet. Power figures are carrier electronics consumption; IP module loads add separately. |
| Humidity                    | 5 to 95 percent non-condensing                                                                                                                                                     |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature         | 55 to 100 C                                                                                                                                                                        |
| Operating temperature       | 0 to 70 C                                                                                                                                                                          |
| Operating Temperature       | 0 to 70 C                                                                                                                                                                          |
| Humidity                    | 5 to 95 percent non-condensing                                                                                                                                                     |
| Relative Humidity           | 5 to 95 percent non-condensing                                                                                                                                                     |
| Power Plus 3.3 V Typical    | 130 mA                                                                                                                                                                             |
| Power Plus 5 V Typical      | 30 mA                                                                                                                                                                              |
| Power Plus 5 V Maximum      | 50 mA                                                                                                                                                                              |
| Plus Minus 12 V             | provided to each IP module                                                                                                                                                         |
| Mtbf                        | 413003 hours at 25 C MIL-HDBK-217F notice 2                                                                                                                                        |
| Board Length                | 12.283 inches (312.0 mm)                                                                                                                                                           |
| Board Height                | 4.200 inches (106.68 mm)                                                                                                                                                           |
| Board Thickness             | 0.062 inches (1.59 mm)                                                                                                                                                             |
| Maximum Component Height    | 0.380 inches (9.65 mm)                                                                                                                                                             |
| Max Height Under Ip Modules | 0.180 inches (4.57 mm)                                                                                                                                                             |
| Field Io Connectors         | 50-pin male headers<br>AthroughE Notes From Acromag APC8620A PCI Bus IP Carrier Card datasheet. Power figures are carrier electronics consumption; IP module loads add separately. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications              |                                                          |
|-----------------------------|----------------------------------------------------------|
| Specifications              |                                                          |
| PARAMETER                   | VALUE                                                    |
| Model                       | APC8620A                                                 |
| Instrument Type             | Non-intelligent PCI bus Industry Pack carrier            |
| Ip Slots                    | five single-size or two double-size plus one single-size |
| Ip Clock Support            | 8 MHz or 32 MHz per ANSI/VITA 4-1995                     |
| Ip Io Space                 | 16 and 8-bit 128 byte values per IP                      |
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| Interrupts Per Ip           | two requests mapped to PCI INTA#                         |
| Pci Compliance              | PCI local bus Rev 2.2                                    |
| Carrier Control Mapping     | 1 Kbyte PCI memory space                                 |
| Ip Memory Window Optional   | 64 MB PCI memory space                                   |
| Data Transfer Widths        | 32 16 and 8-bit slave                                    |
| Operating Temperature       | 0 to 70 C                                                |
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| Relative Humidity           | 5 to 95 percent non-condensing                           |
| Power Plus 3.3 V Typical    | 130 mA                                                   |
| Power Plus 5 V Typical      | 30 mA                                                    |
| Power Plus 5 V Maximum      | 50 mA                                                    |
| Plus Minus 12 V             | provided to each IP module                               |
| Mtbf                        | 413003 hours at 25 C MIL-HDBK-217F notice 2              |
| Board Length                | 12.283 inches (312.0 mm)                                 |
| Board Height                | 4.200 inches (106.68 mm)                                 |
| Board Thickness             | 0.062 inches (1.59 mm)                                   |
| Maximum Component Height    | 0.380 inches (9.65 mm)                                   |
| Max Height Under Ip Modules | 0.180 inches (4.57 mm)                                   |

PARAMETER

VALUE

Field I/O Connectors

50-pin male headers

Notes

From Acromag APC8620A PCI Bus IP Carrier Card datasheet. Power figures are carrier electronics consumption; IP module loads add separately.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.