**Description**
The AcPC8630A is a non-intelligent slave board that interfaces two IP modules to the CompactPCI® (cPCI) bus. All 100 I/O points are brought out the front connectors for easy cable access.

**Key Features & Benefits**
- Two industry-standard IP module slots
- Board resides in memory space
- Supports 8 and 32MHz operation
- Supports IP module I/O, ID, INT, and MEM spaces
- 100 I/O points with front access
- High-density front connectors
- Compatible with all CompactPCI CPUs
- Compatible with 32-bit and 64-bit CompactPCI® and PXI™ backplane
- Plug-and-play carrier configuration and interrupt support
- Two interrupt channels per IP module
- Front panel LEDs
- Supervisory circuit for reset generation
- Individually filtered and fused power to each IP
- Ruggedized with ESD strip and EMC front panel
- Easily integrate IPs with your software using RTOS VxWorks, Linux, or Win DLL for Windows® 2000/XP/Vista/7 32-bit systems.

- Easy access to I/O cables.
- Quick development of custom I/O boards.
- Flexibility to mix and match I/O functions as requirements change.
### Performance Specifications

**General**
Acromag’s carrier boards provide full data access to the IP module's I/O, ID, interrupt and memory spaces. With full access to the IP module's programmable registers, you can easily configure and control their operation from the CompactPCI bus.

Up to two interrupt requests are supported for each IP module. All board interrupts are mapped to PCI bus INTA# signal.

Individual passive filters on each IP power supply line provide optimum filtering and noise isolation between the IP modules and the carrier board.

**IP Compliance (ANSI/VITA 4)**
Meets IP specs per ANSI/VITA 4-1995 (8MHz and 32 MHz operation) and IP I/O mapping to the front panel.

**Environmental**
- Operating temperature: 0 to 70°C (AcPC8630A model) or -40 to 85°C (AcPC8630AE model).
- Storage temperature: -55 to 100°C.
- Relative humidity: 5 to 95% non-condensing.

**CompactPCI bus Compliance**
Meets PCI specification V2.1 and PICMG 2.0, R2.1.

**Data transfer bus**
Slave with 32-bit, 16-bit, and 8-bit data transfer operation. 32-bit read/write accesses are implemented as two 16-bit transfers to the IPs.

**Interrupts**
Supports two interrupt requests per IP module and interrupt acknowledge cycles via access to IP INT space.

### Power Requirements

- **Power**
  - +3.3V (±5%): 300mA maximum.
  - +5V (±5%): 30mA maximum.
  - ±12V (±5%): 0mA (not used).
  - Plus IP module load.
- **MTBF**
  - Contact factory

### Ordering Information

**Carrier Cards**
- AcPC8630A
  - CompactPCI carrier. Holds two IP modules.
- AcPC8630AE
  - Same as AcPC8630A with extended temperature range.

**Accessories**
- 5028-372
  - Cable, SCSI-2 to CHAMP connection
- 5028-378
  - Termination panel, SCSI-2 connector, 50 screw terminals

See [www.acromag.com](http://www.acromag.com) for more information.

**Software Development Tools**
- IPSW-APIVXW
  - VxWorks® software support package
- IPSW-APIWIN32
  - 32-bit Windows® DDL driver and demo software
- IPSW-APIWIN64
  - 64-bit Windows® DDL driver and demo software
- IPSW-APILINUX
  - Linux™ support (website download only)

See [www.acromag.com](http://www.acromag.com) for more information.

---

### Diagram

![Diagram of AcPC8630A and AcPC8635A carrier cards](image-url)