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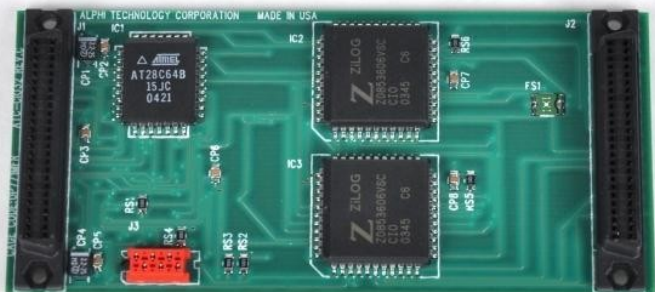
**Data Sheet**

August 15, 2026

ALPHI TECHNOLOGY

# Alphi Technology ATC-CIO32 Counter/Timer and Parallel I/O Industry Pack Module

The Alphi Technology ATC-CIO32 is an Industry Pack module providing counter/timer and parallel I/O capabilities for industrial applications. It offers versatile functionality for data acquisition and control systems.



MODEL

**Alphi Technology  
ATC-CIO32**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**ATC-CIO32**

LISTING

<https://aumictechlabs.com/products/atc-cio32-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Alphi Technology ATC-CIO32 is a single-wide Industry Pack module built around the Z8536 CIO chip, delivering counter/timer and parallel I/O functionality for industrial data acquisition and control systems. It combines up to six 16-bit counters/timers with four 8-bit general-purpose I/O ports and two 4-bit special-purpose ports, all interfaced through a 50-pin connector. An on-board 2 kbyte EEPROM stores identification codes and user data, while support for 8 MHz or 32 MHz IPCLK enables flexible timing configurations.

Technical Specifications

Core Logic: Z8536 CIO

Counter/Timer and Parallel I/O chip

Counters/Timers: Six 16-bit counters/timers

Parallel I/O Ports: Four 8-bit general-purpose ports; two 4-bit special-purpose ports

Memory: 2 kbytes EEPROM (identification and user storage)

IP Clock Support: 8 MHz or 32 MHz IPCLK

Standard Compliance: Single-wide Industry Pack per VITA 4

Connectors: 50-pin I/O connector; 50-pin IP local bus

connectorKey Features Flexible counter/timer configuration for pulse counting, frequency measurement, and interval timing Programmable I/O ports support diverse input and output requirements Non-volatile EEPROM for module identification and persistent data storage Multiple clock frequency options accommodate different system architectures Single-wide form factor optimizes carrier board real estate Operating temperature range: 0 to +70 °C (standard); -45 to +85 °C (optional) Humidity tolerance: 5 to 95% non-condensingTypical Applications Industrial automation and process control Event counting and timing measurement Synchronized data acquisition systems Pulse-width modulation and frequency generation Multi-channel digital I/O controlCompatibility & Integration The ATC-CIO32 integrates with Industry Pack carriers supporting PCI, CPCI, VME, and other backplane architectures. Standard Windows 95 and WinNT drivers facilitate rapid software integration.

## ATCCIO32 Characteristics / Specifications

| PARAMETER             | VALUE                                                   |
|-----------------------|---------------------------------------------------------|
| Model                 | ATC-CIO32                                               |
| Catalog Number        | IP-CIO-32                                               |
| Instrument Type       | IndustryPack counter/timer and parallel I/O module      |
| Family                | Alphi Technology IP-CIO-32                              |
| Devices               | two Zilog Z8536 CIO                                     |
| Parallel Io           | 32 bits bidirectional double buffered, bit programmable |
| Timer Count           | six 16-bit counter/timers                               |
| Special Ports         | two 4-bit handshake ports                               |
| Clock                 | 8 or 32 MHz synchronous                                 |
| Eeprom                | 2 kbyte for board ID and user data                      |
| Ip Spec               | ANSI/VITA 4-1995 single wide                            |
| Memory Map            | ID, 128 byte I/O, interrupt, 8 Mbyte memory spaces      |
| Interrupts            | 2 interrupts per module; 8 interrupt lines available    |
| Dma                   | two passive/slave DMA IP bus lines                      |
| Fuses                 | 5 V and plus or minus 12 V resettable fuse per IP       |
| Vih                   | 2.0 VDC min                                             |
| Vil                   | 0.8 VDC max                                             |
| Voh                   | 2.4 VDC min                                             |
| Vol                   | 0.4 VDC at IOL 2.0 mA                                   |
| Board Size            | 1.8 in x 3.9 in (46 mm x 99 mm)                         |
| Power                 | 1.0 W                                                   |
| Vibration             | 0.5 G, 20-2000 Hz random                                |
| Shock                 | 20 G, 11 ms half sine                                   |
| Mtbf                  | greater than 250,000 hours                              |
| Operating Temperature | 0 C to plus 70 C commercial                             |

| PARAMETER           | VALUE                                 |
|---------------------|---------------------------------------|
| Storage Temperature | minus 40 C to plus 85 C non-operating |
| Humidity            | 5 to 90 percent non-condensing        |
| Manufacturer        | Alphi Technology Corporation          |
| Literature          | Alphi IP-CIO-32 datasheet Rev. 1.0    |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | minus 40 C to plus 85 C non-operating                                                                                                                                                    |
| Operating temperature | 0 C to plus 70 C commercial                                                                                                                                                              |
| Operating Temperature | 0 C to plus 70 C commercial                                                                                                                                                              |
| Humidity              | 5 to 90 percent non-condensing                                                                                                                                                           |
| Manufacturer          | Alphi Technology Corporation                                                                                                                                                             |
| Literature            | Alphi IP-CIO-32 datasheet Rev. 1.0 Notes From Alphi IP-CIO-32 datasheet Rev. 1.0. Queue ATC-CIO32 is the same dual-Z8536 IndustryPack; IP-CIO-32-1 is the minus 40 to plus 85 C overlay. |

# 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                 | ATC-CI032                                               |
| Catalog Number        | IP-CIO-32                                               |
| Instrument Type       | IndustryPack counter/timer and parallel I/O module      |
| Family                | Alphi Technology IP-CIO-32                              |
| Devices               | two Zilog Z8536 CIO                                     |
| Parallel Io           | 32 bits bidirectional double buffered, bit programmable |
| Timer Count           | six 16-bit counter/timers                               |
| Special Ports         | two 4-bit handshake ports                               |
| Clock                 | 8 or 32 MHz synchronous                                 |
| Eeprom                | 2 kbyte for board ID and user data                      |
| Ip Spec               | ANSI/VITA 4-1995 single wide                            |
| Memory Map            | ID, 128 byte I/O, interrupt, 8 Mbyte memory spaces      |
| Interrupts            | 2 interrupts per module; 8 interrupt lines available    |
| Dma                   | two passive/slave DMA IP bus lines                      |
| Fuses                 | 5 V and plus or minus 12 V resettable fuse per IP       |
| Vih                   | 2.0 VDC min                                             |
| Vil                   | 0.8 VDC max                                             |
| Voh                   | 2.4 VDC min                                             |
| Vol                   | 0.4 VDC at IOL 2.0 mA                                   |
| Board Size            | 1.8 in x 3.9 in (46 mm x 99 mm)                         |
| Power                 | 1.0 W                                                   |
| Vibration             | 0.5 G, 20-2000 Hz random                                |
| Shock                 | 20 G, 11 ms half sine                                   |
| Mtbf                  | greater than 250,000 hours                              |
| Operating Temperature | 0 C to plus 70 C commercial                             |
| Storage Temperature   | minus 40 C to plus 85 C non-operating                   |

| PARAMETER    | VALUE                              |
|--------------|------------------------------------|
| Humidity     | 5 to 90 percent non-condensing     |
| Manufacturer | Alphi Technology Corporation       |
| Literature   | Alphi IP-CI0-32 datasheet Rev. 1.0 |

Notes  
From Alphi IP-CI0-32 datasheet Rev. 1.0. Queue ATC-CI032 is the same dual-Z8536 IndustryPack; IP-CI0-32-1 is the minus 40 to plus 85 C overlay.

### 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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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.