

**Aumictech**

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Data Sheet

August 15, 2026

CONTEC

Contec DIO-1616T-LPE Non-Isolated Digital I/O Board

The Contec DIO-1616T-LPE is a non-isolated digital I/O board designed for a wide range of industrial applications. It features 16 digital inputs and 16 digital outputs, providing versatile connectivity for various devices and sensors. The board is compatible with LPE bus systems, ensuring reliable data transfer and system integration.



MODEL

Contec DIO-1616T-LPE

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DIO-1616T-LPE

LISTING

<https://aumictechlabs.com/products/dio-1616t-lpe-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Contec DIO-1616T-LPE is a non-isolated digital I/O board for PCI Express systems, delivering 16 TTL-level inputs and 16 open-collector outputs in a low-profile form factor. Maximum input response time is 200nsec, with configurable per-bit interrupt control and integrated digital filtering to suppress noise and contact bounce across all input channels. Technical Specifications I/O Channels: 16-channel unisolated TTL-level input; 16-channel unisolated open-collector output Input Response Time: 200nsec maximum Output Rating: 30VDC, 40mA per signal Input Resistance: 10kΩ (1 TTL load) Interrupt Capability: Per-bit enable/disable, edge selection, 16 input signals consolidated to single INTA output Digital Filter: Software-configurable, applied per input channel to eliminate noise and chatter Connector Type: Miniature ribbon 50-pin (3M 10250-

52A2JL; compatible with 10150-6000EL) Form Factor: Low-profile PCI Express card, 121.69mm (L) × 67.90mm (H) Bus Interface: PCI Express Base Specification Rev. 1.0a x1 Slot Compatibility: Both low-profile and standard-size slots via interchangeable bracket Key Features All 16 input signals can be configured as interrupt events with individual edge selection Digital filter mitigates false triggering from noise and mechanical chatter Open-collector outputs rated to 30VDC and 40mA per line for direct industrial load switching TTL input format with 10kΩ input impedance Fast 200nsec input response for time-critical applications Typical Applications Industrial control systems, process automation, machinery integration, and real-time digital signal acquisition requiring low-latency I/O operations. Compatibility & Integration Bundled with API-PAC(W32) function library supporting Visual Basic and Visual C++. Windows and Linux drivers included. VI-DAQ library enables LabVIEW integration. Diagnostic software provided for hardware verification. Functional and connector compatibility with legacy PIO-16/16T(LPCI)H PCI cards simplifies system migrations.

DIO1616TLPE Characteristics / Specifications

PARAMETER	VALUE
Model	DIO-1616T-LPE
Instrument Type	PCI Express digital I/O board
Input Type	non-isolated TTL, negative logic
Input Channels	16 (1 common), all available for interrupts
Input Resistance	10 kohm (1 TTL load)
Output Type	non-isolated open collector, negative logic
Output Channels	16 (1 common)
Output Voltage	30 VDC maximum
Output Current	40 mA per channel maximum
Response Time	within 200 nsec
Built In Power	none
Connecting Distance	1.5 m typical depending on wiring
Io Address	any 32-byte boundary
Interrupt Level	1 level (INTA combined from 16 inputs)
Max Boards	16 in one system
Power Consumption	3.3 VDC 350 mA maximum
Bus	PCI Express Base Specification Rev. 1.0a x1
Dimensions	121.69 mmLx 67.90 mmHWeight: 60 g
Operating Temperature	0 to +50 C
Operating Humidity	10-90 percent RH no condensation
Connector	50-pin mini-ribbon CN1
Compatibility	PIO-16/16T(LPCI)H functions and pin assignment
Certifications	VCCI Class A, CE EMC Class A, RoHS, UKCA
Manufacturer	CONTEC
Literature	CONTEC DIO-1616T-LPE data sheet Ver.1.25

PARAMETER	VALUE
Humidity	10-90 percent RH no condensation

DIO1616TLPE Specifications

PARAMETER	VALUE
Applications	PCIe TTL digital I/O, interrupt-driven sensing, open-collector control of 30 V / 40 mA loads.
Key Features	16 TTL inputs and 16 open-collector outputs
All inputs usable as PCIe interrupts	Low Profile or standard bracket
Technical Specifications	Model: DIO-1616T-LPE

General Specifications & Supplementary Characteristics

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Manufacturer	CONTEC
Literature	CONTEC DIO-1616T-LPE data sheet Ver.1.25 Notes From CONTEC DIO-1616T-LPE data sheet Ver.1.25. Digital-filter time-constant codes are in the reference manual; do not invent filter microseconds.

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	
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Notes
From CONTEC DIO-1616T-LPE data sheet Ver.1.25. Digital-filter time-constant codes are in the reference manual; do not invent filter microseconds.

Available from Aumictech

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

Request a quote: 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.