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Data Sheet

August 13, 2026

INTERFACE TECHNOLOGY

Interface Technology IO100VXI 128-Channel TTL Digital I/O Module

Interface Technology IO100VXI / IO110VXI 128-Channel VXI Digital I/O The IO100VXI (TTL) and IO110VXI (CMOS) are single-slot C-size VXI digital I/O modules in the IO50/IO100 family. Each provides up to 128 I/O channels. Groups of eight channels are software-configured as input or output. Tristate supports bidirectional buses. Four 50-pin IDC front-panel connectors each carry 32 I/O channels, four handshake strobes, and four tristate/output-enable inputs. SCPI-compatible commands plus VME dual-ported RAM and memory-mapped registers for register-based speed. IO110VXI is the 128-channel CMOS member of the same family sheet. The IO100VXI (TTL) and IO110VXI (CMOS) are single-slot C-size VXI digital I/O modules in the IO50/IO100 family. Each provides up to 128 I/O channels. Groups of eight channels are software-configured as input or output. Tristate supports bidirectional buses. Four 50-pin IDC front-panel connectors each carry 32 I/O channels, four handshake strobes, and four tristate/output-enable inputs. SCPI-compatible commands plus VME dual-ported RAM and memory-mapped registers for register-based speed. IO110VXI is the 128-channel CMOS member of the same family sheet. Process control and simulation; microprocessor and bus-cycle emulation; functional board/circuit test; handshake-controlled block I/O in VXI ATE.



MODEL

**Interface
Technology
IO100VXI**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

IO100VXI

LISTING

<https://aumictechlabs.com/products/io100vxi-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Interface Technology IO100VXI is a C-size, single-slot VXIbus module that delivers 128 TTL-compatible digital I/O channels for high-density test and control applications. The module supports multiple logic families TTL, CMOS, TTL Open Collector, Differential TTL, and Switched HV Outputs - with software-configurable 8-channel groups operating as inputs or outputs. Four 50-pin IDC connectors provide 32 I/O channels per connector, plus handshake strobes and tri-state control lines. Tri-state output control enables emulation of bi-directional data and control buses, while user-configurable termination and mezzanine board support allow integration of custom I/O drivers. The module handles switched high-voltage outputs up to 100 V and supports external handshaking with defined channel-to-channel skew plus 50 ns inter-card skew.

Technical Specifications

Channel Configuration: 128 digital I/O channels; 8-channel groups independently configured as input or output

Connectors: Four 50-pin IDC connectors; 32 I/O channels, 4 handshake strobes, and 4 tri-state control inputs per connector

Logic Families: TTL, CMOS, TTL Open Collector, Differential TTL, Switched HV Outputs

Differential I/O: RS-422-A standard compliance

Data Fields: User-defined widths from 1 bit to 32 bits

High-Voltage Capability: Switched outputs to 100 V; selectable from +5V, $\pm 12V$, $\pm 24V$ via VXI backplane

Handshake Lines: Byte Available, Byte Request, Data Valid, Data Acknowledge per connector

Tri-State Control: 4 lines per I/O connector for output enable and bi-directional bus emulation

VXI Power Consumption: +5V: 20 W (P1) / 35 W (P2); +12V: 12 W; -12V: 12 W; +24V: 24 W; -24V: 24 W

Airflow Requirement: Per-slot average 6 H₂O mm

Key Features

- Software-programmable 8-channel groups for flexible I/O direction control
- User-configurable I/O termination
- Mezzanine board space for custom I/O driver integration
- VME dual-ported RAM and register access for setup and direct I/O control
- SCPI message-based commands and VXI memory-mapped register interface
- Synchronous multi-module triggering with TTL trigger expansion support
- External handshaking capability

Typical Applications

- Automated test equipment (ATE)
- Data acquisition systems
- Industrial process control
- Microprocessor cycle emulation
- Bus cycle emulation
- Process simulation

Compatibility & Integration

The IO100VXI integrates into standard VXI systems via single-slot C-size form factor. VME-based command and data transfer enable seamless integration with test frameworks supporting SCPI protocols and memory-mapped register access.

Features & description

From manufacturer datasheet

Features

- 128 channels per module; 8-channel I/O direction groups
- Memory-backed pins for timing or handshake-controlled I/O
- Latched inputs and double-latched outputs for simultaneous transitions
- Data fields from 1 to 32 bits; multiple fields by function
- Byte Available / Byte Request / Data Valid / Data Acknowledge handshakes
- Message-based servant with A24 RAM and TTLTRG 0-7

IO100VXI Characteristics / Specifications

PARAMETER	VALUE
Model	IO100VXI / IO110VXI
Manufacturer	Interface Technology
Instrument Type	VXI digital I/O module
Family	IO50 / IO100 Series
Alias	IO100VXI; IO110VXI; IO100; IO110
IO100 Logic	TTL
IO110 Logic	CMOS
I/O Channels	128
Direction Group Size	8 channels
Form Factor	C-size VXI, single slot
Front Connectors	4 × 50-pin IDC (IO100/IO110)
Channels Per Connector	32
Handshake Strokes Per Connector	4
Tristate Enables Per Connector	4
Data Field Width	1 to 32 bits
Latched Read Width	128 bits in one command
Handshake Types	Byte Available, Byte Request, Data Valid, Data Acknowledge
VXI Device Type	message-based, servant only
VXI Revisions	1.3 and 1.4
Addressing	static or dynamic
TTLTRG Lines	0 to 7
A24 RAM	256K
Command Set	SCPI compatible
Dual Port RAM	VME dual-ported RAM and registers
Related IO50VXI	64 channels, two 50-pin connectors

PARAMETER	VALUE
Related IO54VXI	32 differential TTL I/O, switchable 100 ohm
Related IO140VXI	32 differential plus 64 TTL
Differential Standard	RS-422-A (IO54/IO140 family)
Termination	switchable 100 ohm on differential family members

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	I0100VXI / I0110VXI
Manufacturer	Interface Technology
Instrument Type	VXI digital I/O module
Family	I050 / I0100 Series
Alias	I0100VXI; I0110VXI; I0100; I0110
I0100 Logic	TTL
I0110 Logic	CMOS
I/O Channels	128
Direction Group Size	8 channels
Form Factor	C-size VXI, single slot
Front Connectors	4 x 50-pin IDC (I0100/I0110)
Channels Per Connector	32
Handshake Strokes Per Connector	4
Tristate Enables Per Connector	4
Data Field Width	1 to 32 bits
Latched Read Width	128 bits in one command
Handshake Types	Byte Available, Byte Request, Data Valid, Data Acknowledge
VXI Device Type	message-based, servant only
VXI Revisions	1.3 and 1.4
Addressing	static or dynamic
TTLTRG Lines	0 to 7
A24 RAM	256K
Command Set	SCPI compatible
Dual Port RAM	VME dual-ported RAM and registers
Related I050VXI	64 channels, two 50-pin connectors
Related I054VXI	32 differential TTL I/O, switchable 100 ohm

PARAMETER	VALUE
Related I0140VXI	32 differential plus 64 TTL
Differential Standard	RS-422-A (I054/I0140 family)
Termination	switchable 100 ohm on differential family members

Notes

Rows from the Interface Technology I050/I0100 family digital I/O datasheet (I0100VXI/I050VXI text and VXI specification block) and Artisan I0110VXI family description. I0100VXI is TTL; I0110VXI is the 128-channel CMOS variant on the same family sheet. Confirm TTL vs CMOS faceplate and installed handshake cabling.

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 ·
30-day returns
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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.