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Data Sheet

August 15, 2026

ICS ELECTRONICS

ICS Electronics VXI-5524 VXI Interface Module with Prototyping Board

The ICS Electronics VXI-5524 is a VXI interface module equipped with a prototyping board. It allows users to develop custom VXI modules, facilitating specialized test and measurement applications. Ideal for creating tailored solutions within VXI systems.



MODEL

**ICS Electronics
VXI-5524**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VXI-5524

LISTING

<https://aumictechlabs.com/products/vxi-5524-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ICS Electronics VXI-5524 is a register-based VXI interface module that bridges custom circuitry to the VXIbus, enabling rapid prototyping of specialized test and measurement instruments. This low-cost platform mates with a user-supplied PCB to form a complete 'B' or 'C' size VXI module, delivering immediate VXI compliance without designing an interface from scratch. Technical Specifications VXIbus Compliance VXI-1 Revision 1.4 and VXI-2 compliant Extended Register-Based Device specification Digital I/O 48 digital I/O signals arranged in three 16-bit registers Configurable per 16-bit increment as latched outputs or gated inputs TTL/CMOS compatible with 20 mA source and 40 mA sink capability 33 kOhm pullups standard; selectable 3.3V or 5V dc pullup voltage VXI Data Expansion Bus 16-bit bidirectional buffered expansion interface Supports register, FIFO, and external logic circuit decoding Address range 0x20 to 0x38

hex for user expansion registers Trigger Architecture TTL trigger inputs and outputs connected to paired VXIbus TTL Trigger Lines TrigIn# selectable to TTLTRG lines 0, 2, 4, or 6 TrigOut# capable of driving TTLTRG lines 1, 3, 5, or 7 Interrupt Handling VXIbus interrupt capability with cause code reporting Three user-definable cause code bits latched on IRQ input Interrupt Control Register for line selection and enable management Electrical & Timing Digital I/O and VXIbus logic: 3.3V with 5V tolerance 10 MHz clock selectable from VXIbus or internal oscillator Power: 5 Vdc @ 150 mA, -5.2 Vdc @ 45 mA, -2 Vdc @ 9 mA Key Features Flexible signal conditioning with user-configurable digital I/O and multiple trigger line assignments enables deployment across diverse applications. The expansion bus removes architectural constraints for circuits requiring more than simple register control. Integrated pullups and logic level translation simplify integration with legacy and modern logic families. Typical Applications Custom sensor interfaces, real-time data acquisition subsystems, relay and switch control modules, and equipment-specific measurement front-ends within VXI instrument racks.

VXI5524 Characteristics / Specifications

PARAMETER	VALUE
Model	VXI-5524
Instrument Type	register based VXI interface adapter
Vxi Revision	VXI-1 Rev 1.4 and VXI-2 Rev 1.0
Address Space	A16
Data Width	D16
Device Class	register based servant
Handshake	normal handshake data transfer
Digital Io Lines	48 TTL/CMOS latched
Io Source Current	20 mA
Io Sink Current	40 mA
Io Pullups	33 kohm
Expansion Bus Width	16 bits
Expansion Address Range	20 to 38 HEX
Expansion Extra Registers	26
Clock	10 MHz VXI-5524 oscillator or VXIbus CLK10
Card Width	9.187 in (233 mm)
Card Height	0.62 in (15.7 mm)
Card Depth	3.0 in (76.2 mm)
Mass	0.14 kg (0.32 lb)
Logic Current 5 V	300 mA
Logic Current Minus 5p2 V	45 mA
Logic Current Minus 2 V	9 mA
User Connector	3 row x 32 pin DIN
Vxi Connectors	P1 and P2
Leds	RDY ACCESS FAIL SYSFAIL

PARAMETER	VALUE
Self Test	power-on self test and built-in diagnostics
Manufacturer	ICS Electronics
Prototype Boards	114820 sea of holes, 114830 copper clad
Hardware Kits	11434× 1/2/3 slot C-size kits

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 ICS Electronics VXI-5524 Interface Card datasheet dated 3/04. User-circuit current on the seven VXI voltages is in addition to the listed interface-logic currents.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.