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Data Sheet

August 15, 2026

ICS ELECTRONICS

ICS Electronics VXI-5535B Multifunction Module

The ICS Electronics VXI-5535B is a single-slot VXI C-size multifunction module that integrates four independent interfaces - one GPIB, two configurable serial ports, and 64 bits of digital I/O - into a compact instrument control platform. Each interface operates with its own logical address and non-volatile configuration memory, enabling flexible deployment in automated test equipment and industrial control systems without requiring repeated reconfiguration. Programmable baud rates from 50 to 460,800 baud; non-standard rates supported to closest divider value Internal termination networks on each channel for RS-422/RS-485 signal biasing Digital I/O User-selectable 3.3 V or 5 V DC pull-up voltage for switch sensing VXIbus and Data Transfer



MODEL

**ICS Electronics
VXI-5535B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VXI-5535B

LISTING

<https://aumictechlabs.com/products/vxi-5535b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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Interfaces Two independent channels, each configurable for RS-232, RS-422, or RS-485
Programmable baud rates from 50 to 460,800 baud; non-standard rates supported to closest divider value Asynchronous operation up to 460,800 baud Synchronous data transfer using external clock signals Asynchronous and SDLC protocol support (standard) Internal termination networks on each channel for RS-422/RS-485 signal biasing Digital I/O 64 bits total, configurable as latched outputs or gated inputs Logic levels: 3.3 V with 5 V tolerance for mixed-voltage compatibility User-selectable 3.3 V or 5 V DC pull-up voltage for switch sensing VXIbus and Data Transfer VXI 1.4 and IEEE-488.2 compliant Fast Data Channel protocol support; data transfer rates exceed 4 Mbytes per second Independent trigger and interrupt programming per interface Configuration SCPI command set and ICS short-form commands Non-volatile memory stores all interface settings Internal processors offload controller overhead Key Features Four-character LED front panel display for status and diagnostics Each interface independently programmable with persistent memory storage Mixed-voltage logic support (3.3 V/5 V) for broad system compatibility Internal termination eliminates external termination networks on serial lines Typical Applications Automated test equipment (ATE) systems Industrial control and instrumentation Multi-protocol data acquisition and command distribution Compatibility & Integration Fully compatible with standard VXI test systems. Operates as a VXI 1.4 instrument with independent logical addressing for each interface, enabling seamless integration into controller-managed instrument racks.

VXI5535B Characteristics / Specifications

PARAMETER	VALUE
Model	VXI-5535B
Instrument Type	VXI multifunction module
Family	ICS 553x
Bus	VXIbus
Form Factor	VXI C-size class
Sibling	VXI-5524
Manufacturer	ICS Electronics
Literature	ICS Electronics VXI-5535B listings
Application Class	VXI ATE multifunction I/O
System Role	multifunction VXI I/O
Use Case	digital analog serial ATE
Documentation Type	OEM VXI-5535B listing
Host Class	VXI slot-0 controller
Standard Class	IEEE-488.2 / VXI plug-and-play
Brand Lineage	ICS Electronics
Year Class	VXI-5535B
Slot Class	VXI C-size
Io Class	multifunction
Register Class	VXI register/message based class
Connector Class	VXI P1/P2 plus front I/O
Ate Class	VXI subsystem
Control Class	slot-0 resource manager
Related	ICS VXI-5524 in the same family
Protocol Class	VXI-11 / GPIB-VXI class hosts
Module Class	multifunction I/O

VXI5535B Specifications

PARAMETER	VALUE
Applications	VXI ATE multifunction I/O, digital/analog/serial, in ICS 553x racks.
VXI multifunction module	ICS 553x family
Technical Specifications	Model: VXI-5535B

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-5535B listings (553x family, C-size VXI, companion 5524). Channel counts and analog ranges are on the VXI-5535B specification; do not invent them.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.