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Data Sheet

August 14, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology EX2500A LXI-VXI Gigabit Ethernet Slot 0 Interface

AMETEK VTI EX2500A LXI-VXI Gigabit Ethernet Slot 0 Interface The VTI EX2500A isaC-size LXI ClassA gigabit Ethernet VXI Slot 0 controller. OEM datasheet and user manual list 40 MB/s block moves, 256 MB DDR standard expandable to 2 GB, embedded resource manager, A16/A24/A32, VXI 1.4/2.0/3.0, copper to 100 m and fiber to 10 km, and optional TCXO/OCXO CLK10. Hybrid LXI/VXI ATE control of C-size mainframes from a host PC with VISA, including multi-mainframe TTL trigger extension on the LXI trigger bus. LXI Compliance: LXI 1.0 ClassA Block Move Rate: 40 MB/s The VTI EX2500A isaC-size LXI ClassA gigabit Ethernet VXI Slot 0 controller. OEM datasheet and user manual list 40 MB/s block moves, 256 MB DDR standard expandable to 2 GB, embedded resource manager, A16/A24/A32, VXI 1.4/2.0/3.0, copper to 100 m and fiber to 10 km, and optional TCXO/OCXO CLK10. Hybrid LXI/VXI ATE control of C-size mainframes from a host PC with VISA, including multi-mainframe TTL trigger extension on the LXI trigger bus. LXI Compliance: LXI 1.0 ClassA Block Move Rate: 40 MB/s Processor: 825 MHz listed in user manual 833 MHz on some datasheet rows

 Ametek / VTI Instruments / VXI Technology
EX2500A LXI-VXI Gigabit Ethernet Slot 0 Interface

MODEL

**Ametek / VTI
Instruments / VXI
Technology
EX2500A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

EX2500A

LISTING

<https://aumictechlabs.com/products/ex2500a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek/VTI Instruments/VXI Technology EX2500A is a Slot 0 interface module that bridges LXI and VXI systems over Gigabit Ethernet. It enables high-speed data transfer and control between LXI controllers and VXI instruments, supporting block transfer rates exceeding 40 MB/s via a DMA controller while maintaining traditional message-based command performance. The module extends all eight VXI TTL triggers across multiple mainframes and to other LXI devices, accommodates host distances up to 200 meters via CAT5e or 10 km via fiberoptic cable, and provides an embedded web interface for instrument control, trigger routing configuration, and system status monitoring.

Technical Specifications

Data Transfer: Block transfer rates exceeding 40 MB/s with DMA controller architecture

Host Connection: Up to 200 meters via CAT5e Ethernet; up to 10 km via fiberoptic interface

Triggering: Eight VXI TTL triggers extended across mainframes and LXI devices via LXI Trigger Bus compliant LVDS connectors; SMB connectors for legacy trigger systems

Clock Options: On-board TCXO (Temperature Compensated Crystal Oscillator) and OCXO (Oven Controlled Crystal Oscillator) with external Clock In/Out capability

Software Interface: VXIplug&play compliant; VISA API layer compatible with Agilent Technologies and National Instruments VISA implementations; includes standard VISA I/O library

Instrument Discovery: LXI standard VXI-11 mechanism

Web Interface: Interactive utility for instrument control, trigger routing configuration, installed hardware inventory, memory allocation, IP configuration, and logical address information

Key Features

- Backward compatible with VXI 1.4 and 2.0 products
- Preserves existing Test Program Set (TPS) and driver investments without code modification
- SMB connectors for external reference clock input/output support legacy systems
- Gigabit Ethernet primary interface with distributed trigger capability across rack systems

Compatibility & Integration

The EX2500A integrates LXI standard features with VXI architecture, enabling transparent communication between heterogeneous test systems. VXIplug&play compliance and VISA standardization ensure compatibility across Agilent and National Instruments ecosystems without requiring existing application modifications.

EX2500A Characteristics / Specifications

PARAMETER	VALUE
Model	EX2500A
Size	1 slotCsize
Mass	2.5 lb 1.1 kg
Slot 0 Capability	yes
Resource Manager	embedded
Address Space	A16 A24 A32
VXI Revision	1.4 2.0 3.0
LXI Compliance	LXI 1.0 ClassABlock Move Rate: 40 MB/s
DRAM Standard	256 MB 333 MHz DDR SDRAM
DRAM Optional	up to 2 GB
Processor	825 MHz listed in user manual 833 MHz on some datasheet rows
Ethernet Protocol	TCP/IP VXI-11
Copper Reach	100 m point to point Cat 5e 10/100/1000
Fiber Reach	up to 10 km with SFP 1000BASE SX or LX
CLK10 Standard	plus or minus 50 ppm uses VXI 10 MHz
TCXO Option Aging	plus or minus 1e-6 per year
OCXO Option Aging	plus or minus 1e-7 per year
OCXO Warm Up	less than 3 minutes
Trigger Support	VXI TTL 0-7 LXI 0-7 EXT TRIG IN/OUT
VISA	VXIplug and play compliant
Operating Temperature	0 C to plus 50 C
Operating Humidity	5 to 85 percent RH
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EX2500A Specifications

PARAMETER	VALUE
Key Features	Gigabit Ethernet Slot 0 LXI Class A
Copper or SFP fiber media	Optional TCXO/OCXO CLK10
Technical Specifications	Model: EX2500A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to plus 50 C
Operating Temperature	0 C to plus 50 C
Humidity	5 to 85 percent RH
Operating Humidity	5 to 85 percent RH Notes From VTI EX2500A datasheet and EX2500A user manual specification tables. Processor is listed as 825 MHz in the manual and 833 MHz on some datasheet sheets.

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.

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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.