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Data Sheet

August 15, 2026

CORELIS

Corelis CVXI-1149.1 Boundary Scan Controller Board

The Corelis CVXI-1149.1 is a VXIbus-based boundary scan controller board for IEEE 1149.1 (JTAG) testing and in-system programming of electronic circuits. It has a solid interface between the VXIbus and JTAG-compatible targets, enabling comprehensive testing, debugging, and programming without direct physical probing. Fault isolation through access to internal device functions not reachable by external probing Aumictech offers NIST-traceable calibration and repair for the Corelis CVXI-1149.1. Calibration covers all module-specific parameters per manufacturer datasheet, output accuracy and linearity, frequency accuracy, and VXI register and trigger bus compliance. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common Corelis CVXI-1149.1 faults: relay contact wear, DAC/ADC drift, VXI backplane connector oxidation. Common



MODEL

Corelis CVXI-1149.1

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CVXI-1149.1

LISTING

<https://aumictechlabs.com/products/cvxi-1149-1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Corelis CVXI-1149.1 is a VXIbus-based boundary scan controller board for IEEE 1149.1 (JTAG) testing and in-system programming of electronic circuits. It has a solid interface between the VXIbus and JTAG-compatible targets, enabling comprehensive testing, debugging, and

programming without direct physical probing. Technical Specifications IEEE Standard 1149.1 (JTAG) compliant Six independent serial scan test busses 64 bits of parallel I/O Programmable scan test clock rates VXIbus module form factor Four-signal cable interface per TAP Key Features Automated testing of PCB interconnects and functional validation Built-In-Self-Test (BIST) command execution on target circuitry In-system programming (ISP) of devices within circuit designs Fault isolation through access to internal device functions not reachable by external probing Precise signal generation under software control Multiple independent scan buses for parallel test operations Typical Applications Production board testing and manufacturing quality verification In-circuit device programming and re-programming Internal fault diagnostics within integrated circuits Debug and validation of circuit board designs prior to deployment Compatibility & Integration The controller integrates directly into VXI chassis via the VXIbus interface. It connects to JTAG-compliant target systems through standard four-signal cables. Operation is controlled through Corelis ScanExpress™ software family. Compatible with any JTAG-compliant target device or system.

CVXI11491 Characteristics / Specifications

PARAMETER	VALUE
Model	CVXI-1149.1
Instrument Type	VXIbus boundary scan controller
Standard	IEEE 1149.1
Tap Count	6 serial scan test busses
Parallel Io	64 bits (32 in and 32 out)
Tck Maximum	15 MHz
Internal Oscillator	30 MHz XTAL
Tck Divider	divide by 2 to divide by 32 sixteen settings
Tck Internal Range	937.5 kHz to 15 MHz
Scan Data Length	up to 232 bits
Controller Device	TI SN74ACT8990
Vxi Device Type	A16/D16 slave interrupter
Address Block	64 bytes (32 words) 40 hex
Address Modifiers	29 hex and 2D hex
Logical Address Switch	8 bit DIP C000 hex to FFC0 hex
Register Width	16 bits
Power Plus 5 V	2.0 A maximum
Operating Temperature	0 to plus 70 CCSize: 13.4 in x 9.2 in x 1.2 inBSize: 6.3 in x 9.2 in x 0.8 in
Event Detectors	4
Event Counters	two 16 bit
Serial Buffers	two 16 bit read and write
Output Enable Groups	four octal tristate buffers
Mechanical Package	VXICsize orBsize

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to plus 70 C CSize: 13.4 in x 9.2 in x 1.2 in BSize: 6.3 in x 9.2 in x 0.8 in
Operating Temperature	0 to plus 70 C CSize: 13.4 in x 9.2 in x 1.2 in BSize: 6.3 in x 9.2 in x 0.8 in
Event Detectors	4
Event Counters	two 16 bit
Serial Buffers	two 16 bit read and write
Output Enable Groups	four octal tristate buffers
Mechanical Package	VXICsize or Bsize Notes From Corelis CVXI-1149.1 VXIbus Boundary Scan Controller Board datasheet. CVXI-1149.1/IM is the intelligent variant; confirm C-size versus B-size and IM option on the assembly.

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	
Technical Specifications	
PARAMETER	VALUE
Model	CVXI-1149.1
Instrument Type	VXIbus boundary scan controller
Standard	IEEE 1149.1
Tap Count	6 serial scan test busses
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Address Modifiers	29 hex and 2D hex
Logical Address Switch	8 bit DIP C000 hex to FFC0 hex
Register Width	16 bits
Power Plus 5 V	2.0 A maximum
Operating Temperature	0 to plus 70 C
C Size	13.4 in x 9.2 in x 1.2 in
B Size	6.3 in x 9.2 in x 0.8 in
Event Detectors	4
Event Counters	two 16 bit
Serial Buffers	two 16 bit read and write
Output Enable Groups	four octal tristate buffers
Mechanical Package	VXI C size or B size
Specifications	

PARAMETER	VALUE
Model	CVXI-1149.1
Instrument Type	VXIBus boundary scan controller
Standard	IEEE 1149.1
Tap Count	6 serial scan test busses
Parallel Io	64 bits (32 in and 32 out)
Tck Maximum	15 MHz
Internal Oscillator	30 MHz XTAL
Tck Divider	divide by 2 to divide by 32 sixteen settings
Tck Internal Range	937.5 kHz to 15 MHz
Scan Data Length	up to 232 bits
Controller Device	TI SN74ACT8990
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Event Detectors	4
Event Counters	two 16 bit
Serial Buffers	two 16 bit read and write
Output Enable Groups	four octal tristate buffers
Mechanical Package	VXICsize orBsize

Notes

From Corelis CVXI-1149.1 VXIBus Boundary Scan Controller Board datasheet. CVXI-1149.1/IM is the intelligent variant; confirm C-size versus B-size and IM option on the assembly.

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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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.