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Data Sheet

August 15, 2026

CORELIS

Corelis CVXI-1149.1/IM Intelligent Boundary-Scan Controller

The Corelis CVXI-1149.1/IM is an intelligent boundary-scan controller designed for advanced JTAG testing and in-system programming. It provides high-performance boundary-scan capabilities, supporting IEEE 1149.1 standards for comprehensive testing of electronic assemblies. Ideal for complex circuit board diagnostics and validation.



MODEL

Corelis CVXI-1149.1/IM

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CVXI-1149.1/IM

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Corelis CVXI-1149.1/IM is a VXIbus-based intelligent boundary-scan controller that delivers IEEE 1149.1 (JTAG) testing and in-system programming for complex electronic assemblies. It controls up to six independent TAPs and provides 64 bits of parallel I/O with programmable scan clock rates, enabling structural testing, embedded functional test, BIST, fault isolation, and device programming without manual probing. Technical Specifications IEEE 1149.1 (JTAG) standard compliance Up to six independent serial scan test busses (TAPs) 64-bit parallel input/output interface Programmable JTAG TCK scan test clock rates VXIbus module form factor Configurable I/O voltage levels via software for target system compatibility Key Features Built-in self-test (BIST) and embedded functional test capabilities PCB interconnect verification without external probing

Access to device internal functions for in-system fault isolation In-system programming (ISP) of CPLDs, FPGAs, and Flash memories Software debug support Six independent TAP control for multi-device test chains Typical Applications Structural and functional testing of circuit boards CPLD and FPGA device programming Interconnect verification on complex assemblies In-system fault detection and isolation within target devices Embedded software debugging Compatibility & Integration The controller integrates with Corelis ScanExpress™ software suite and supports the Scan Function Library (SFL) as a 32-bit DLL for third-party application integration including National Instruments LabVIEW, TestStand, and Agilent VEE. Compatible with Windows (32-bit and 64-bit) and Linux operating systems. Operates with any JTAG-compliant target system.

CVXI11491IM 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 CCSize: 13.4 in x 9.2 in x 1.2 inBSize: 6.3 in x 9.2 in x 0.8 in
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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.

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
Parallel Io	64 bits (32 in and 32 out)
Tck Maximum	15 MHz
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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
Vxi Device Type	A16/D16 slave interrupter
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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

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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.