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Data Sheet

August 15, 2026

JTAG TECHNOLOGIES

JTAG Technologies JT2149 TAP Pod

JTAG Technologies JT2149 TAP Pod for DataBlaster QuadPod The JT 2149 is the removable TAP pod in the JT 2147 QuadPod used with JT 37×7 DataBlaster controllers. OEM controller literature lists four JT 2149 pods per QuadPod, each with a 20-way TAP connector including AutoWrite, Ready/Busy and application signals, plus an 8-pin connector with 4 static I/O lines per pod for PSU switching or EMU/JTAG mode. Pods may sit 1 m away on the supplied extender without losing peak performance. Optional JT 2149/DAF adds digital/analog/frequency measure; JT 2149/MPV is TAP-synchronized DIO. QuadPod is 190 × 127 × 24 mm. DataBlaster TCK 1 kHz to 40 MHz, output 1.0 to 3.6 V, input threshold 0.6 to 1.8 V, 16 DIO (4 per TAP). Classic Pod Contrast: JT 2137 classic pods 5 V/3.3 V 25 MHz max TCK Host Controllers: JT 3707/TSI JT 3717/TSI JT 3727/TSI and PCI/PXI variants Application Class: UUT TAP signal conditioning From JTAG Technologies controllers overview (QuadPod JT 2147/10 with four JT 2149 TAP pods) and JT 37×7/TSI specification table. JT2149 is the pod; TCK/voltage numbers are the DataBlaster host driving the pod.



MODEL

**JTAG
Technologies
JT2149**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

JT2149

LISTING

<https://aumictechlabs.com/products/jt2149-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JTAG Technologies JT2149 TAP Pod is a modular boundary-scan interface that connects JTAG controllers to target boards for test access port (TAP) operations and in-system

programming. The unit transmits standard TAP signals TDI, TDO, TMS, TCK, and TRST - alongside control signals for AutoWrite and VPP_enable functions. It integrates a flash Read/Busy line monitor and two user-configurable outputs (User0 and User1) for custom test operations. Available as a standalone module or as part of the JT2147 QuadPod system, the JT2149 reduces maintenance costs through field-replaceable modular construction. Technical Specifications Connectors and Signal Distribution 20-way 0.1" IDC connector: 10 dynamic signals (TAP, AutoWrite, VPP_enable, User0, User1), 9 signal grounds, 5V supply 8-way SIL IDC connector: 4 static I/O lines, 4 signal grounds 0.05" 26-way front-edge connector: all dynamic signals, static I/Os, 11 signal grounds, 5V power Remote Operation Optional one-meter extender cable (JT 2131/47) permits remote siting without performance degradation Key Features Full TAP signal support for JTAG boundary-scan and in-system programming workflows Flash memory operation monitoring via dedicated Read/Busy input Static I/O lines for relay control and switch closure detection User-defined outputs enable custom control logic integration Modular form factor allows independent unit replacement Module Variants JT 2149/DAF 28 measurement channels with integrated clock generator Extends digital boundary-scan with analog and frequency measurement capabilities JT 2149/MPV (-001) 32 channels of DIOS (Digital I/O Synchronized); up to four units provide 128 total DIOS channels in QuadPod configuration 2 × 20-way 0.1" IDC connectors for signal access Programmable SCIL (Scan Configurable Interface Logic) functions 40 MHz TCK frequency support JT 2149/eMPV Extended DIOS connectivity via 0.1" IDC connectors for both DIOS blocks and TAP signals 8-way SIL IDC connector for static I/O lines Compatibility & Integration The JT2149 integrates into the JT2147 QuadPod system or functions as a standalone boundary-scan pod within custom test fixtures. Its modular architecture permits flexible multi-unit configurations for expanded I/O and measurement capability.

JT2149 Characteristics / Specifications

PARAMETER	VALUE
Model	JT2149
Instrument Type	Boundary-scan TAP pod
Family	JT 2147 QuadPod / JT 37×7 DataBlaster
Pods Per Quadpod	4 removable JT 2149 TAP pods standard
Tap Connector	20-way including AutoWrite Ready/Busy and application signals
Static Io	4 static I/O lines per pod on 8-pin connector
Extender	1 m extender cable without affecting peak performance
Daf Sibling	JT 2149/DAF digital analog and frequency measure
Mpv Sibling	JT 2149/MPV TAP synchronized DIO
Quadpod Size	190 × 127 × 24 mm
Tck Range	1 kHz to 40 MHz internal source on JT 37×7
Output Voltage Range	1.0 V to 3.6 V on JT 37×7
Input Threshold	0.6 V to 1.8 V on JT 37×7
Dio Count	16 (4 per TAP) on JT 37×7
Main Unit Size	135 × 220 × 40 mm JT 37×7/TSI
Main Unit Mass	0.73 kg JT 37×7/TSI
Main Unit Power	12 V / 2 A center negative on TSI
Classic Pod Contrast	JT 2137 classic pods 5 V/3.3 V 25 MHz max TCK
Manufacturer	JTAG Technologies
Standard	IEEE 1149.x
Host Controllers	JT 3707/TSI JT 3717/TSI JT 3727/TSI and PCI/PXI variants
Application Class	UUT TAP signal conditioning

JT2149 Specifications

PARAMETER	VALUE
JTAG Technologies JT2149 TAP Pod for DataBlaster QuadPod	Overview
Applications	Four-TAP signal conditioning at the UUT for JT 37×7 DataBlaster boundary-scan and ISP, including fixture-remote pods.
Key Features	Removable TAP pod in JT 2147 QuadPod
Technical Specifications	Model: JT2149

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.

performance. Optional JT 2149/DAF adds digital/analog/frequency measure; JT 2149/MPV is TAP-synchronized DIO. QuadPod is 190 x 127 x 24 mm. DataBlaster TCK 1 kHz to 40 MHz, output 1.0 to 3.6 V, input threshold 0.6 to 1.8 V, 16 DIO (4 per TAP).

Applications

Four-TAP signal conditioning at the UUT for JT 37x7 DataBlaster boundary-scan and ISP, including fixture-remote pods.

Key Features

Removable TAP pod in JT 2147 QuadPod

20-way TAP plus 4 static I/O per pod

1 m extender without TCK penalty

Pairs with 40 MHz DataBlaster TCK

Optional DAF analog/frequency measure

Technical Specifications

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