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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight J4223A

HP Agilent J4223A SpectralBER DWDM Controller 2.5 Gb/s System The Agilent J4223A is the DWDM controller in the SpectralBER 2.5 Gb/s-and-below C-size VXI system. OEM SpectralBER installation literature states that a 2.5 Gb/s and below system comprises a C-size VXI mainframe, E1406A Command Module, J4223A DWDM Controller, and J4230A/31A/32A/33A/34A/35A transmitter modules and/or J4225A/26A/27A receiver modules in any combination. Each VXI mainframe must contain a Command Module and a DWDM Controller to control the register-based transmitter/receiver modules. Each 2.5 Gb/s transmitter or receiver occupies two VXI slots. The Agilent J4223A is the DWDM controller in the SpectralBER 2.5 Gb/s-and-below C-size VXI system. OEM SpectralBER installation literature states that a 2.5 Gb/s and below system comprises a C-size VXI mainframe, E1406A Command Module, J4223A DWDM Controller, and J4230A/31A/32A/33A/34A/35A transmitter modules and/or J4225A/26A/27A receiver modules in any combination. Each VXI mainframe must contain a Command Module and a DWDM Controller to control the register-based transmitter/receiver modules. Each 2.5 Gb/s transmitter or receiver occupies two VXI slots. Control of SpectralBER 2.5 Gb/s DWDM register-based Tx/Rx modules in VXI.



MODEL

**Agilent / Keysight
J4223A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

J4223A

LISTING

<https://aumictechlabs.com/products/j4223a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight J4223A is a single-slot C-size VXI module that is the central processor for the SpectralBER System. It manages transmitter and receiver module control, aggregates measurement results from multiple receivers, and communicates with a control PC or workstation via SCPI commands through a Command Module.

Technical Specifications

Form Factor: Single-slot, C-size VXI module

Interface: SCPI command protocol via Command Module

Self-Test: Power-on self-test included

Driver Standard: HP J4223A Universal Instrument Driver conforming to VXIplug&play specification with VISA support for GPIB and VXI protocols

Key Features

- Central processing capability for SpectralBER System operation
- Transmitter module management and receiver module control
- Data concentration from multiple receivers into single output stream
- Electromagnetic compliance to EN 55011:1991 (Group 1, Class A) and EN 50082-1:1992
- General Product Safety Directive 92/59/EEC compliance
- ESD performance per IEC 61000-4-2:1995

Typical Applications

The J4223A enables BER testing of SONET and SDH network elements operating at 10 Gb/s and below, including optical add/drop multiplexers, optical translators, transponders, and multi-channel systems.

Compatibility & Integration

Designed as the core processing module within the SpectralBER family. Related optical modules (J1422B, J4230A, J4231A, J4232A) are Class I laser products compliant with US FDA Standard 21 CFR Ch. 1 1040.10 and EN 60825-1 (1994).

System EMC performance requires replacement of worn or damaged cables with identical specifications.

J4223A Characteristics / Specifications

PARAMETER	VALUE
Model	J4223A
Instrument Type	SpectralBER DWDM controller
System Class	2.5 Gb/s and below SpectralBER
Host Mainframe	C-size VXI
Required Companion	E1406A Command Module
Related Transmitters	J4230A, J4231A, J4232A, J4233A, J4234A, J4235A
Related Receivers	J4225A, J4226A, J4227A
Tx Rx Slot Width	two VXI slots each
Control Model	register-based transmitter/receiver modules
System Control	SCPI, Universal Instrument Drivers, Soft Front Panel
Related 10g Controller Path	10 Gb/s system uses message-based J1421A/J1422B/J1420B instead
Form Factor	C-size VXI module
Manufacturer	Agilent Keysight HP
Use Case	2.5 Gb/s DWDM SpectralBER control
Literature	Agilent SpectralBER System Installation and System Reference Manual J4223A
Family	SpectralBER 2.5 Gb/s
Documentation Type	OEM SpectralBER installation manual
Brand Lineage	HP Agilent Keysight SpectralBER
System Role	DWDM controller
Mainframe Rule	each 2.5 Gb/s mainframe needs command module plus J4223A
Combination	transmitters and receivers in any combination
Related 10g Receiver	J1420B 9.953 Gb/s three-slot VXI

J4223A Specifications

PARAMETER	VALUE
Applications	Control of SpectralBER 2.5 Gb/s DWDM register-based Tx/Rx modules in VXL.
Key Features	DWDM controller for 2.5 Gb/s SpectralBER
Technical Specifications	Model: J4223A

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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PARAMETER	VALUE
Model	J4223A
Instrument Type	SpectralBER DWDM controller
System Class	2.5 Gb/s and below SpectralBER
Host Mainframe	C-size VXI
Required Companion	E1406A Command Module
Related Transmitters	J4230A, J4231A, J4232A, J4233A, J4234A, J4235A
Related Receivers	J4225A, J4226A, J4227A
Tx Rx Slot Width	two VXI slots each
Control Model	register-based transmitter/receiver modules
System Control	SCPI, Universal Instrument Drivers, Soft Front Panel
Related 10g Controller Path	10 Gb/s system uses message-based J1421A/J1422B/J1420B instead
Form Factor	C-size VXI module
Manufacturer	Agilent Keysight HP
Use Case	2.5 Gb/s DWDM SpectralBER control
Literature	Agilent SpectralBER System Installation and System Reference Manual J4223A
Family	SpectralBER 2.5 Gb/s
Documentation Type	OEM SpectralBER installation manual
Brand Lineage	HP Agilent Keysight SpectralBER
System Role	DWDM controller
Mainframe Rule	each 2.5 Gb/s mainframe needs command module plus J4223A
Combination	transmitters and receivers in any combination
Related 10g Receiver	J1420B 9.953 Gb/s three-slot VXI
Notes	
From Agilent SpectralBER installation/reference manual (J4223A DWDM controller in 2.5 Gb/s VXI system with E1406A; two-slot register-based Tx/Rx). Controller register map and 2.5 Gb/s line rates are in the J4223A/module specification binder.	

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.