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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight J1422B

The Agilent J1422B is the message-based C-size VXI transmitter in the SpectralBER 10 Gb/s DWDM system. OEM SpectralBER literature names J1422B as DWDM Transmitter Module 9.953 Gb/s and states it transmits SDH/SONET STM-64/OC-192 framed signals. It is a Class I (non-hazardous) laser product. Factory-default 10 Gb/s layout places the transmitter in VXI slots 3/4/5, to the right of J1421A, connected by the supplied semi-rigid cable. Do not connect its optical output directly to a J1420B input (0 dBm damage limit). 10 Gb/s STM-64/OC-192 DWDM stimulus into SpectralBER receivers and DUT line cards. HP Agilent J1422B SpectralBER 10 Gb/s DWDM Transmitter Module The Agilent J1422B is the message-based C-size VXI transmitter in the SpectralBER 10 Gb/s DWDM system. OEM SpectralBER literature names J1422B as DWDM Transmitter Module 9.953 Gb/s and states it transmits SDH/SONET STM-64/OC-192 framed signals. It is a Class I (non-hazardous) laser product. Factory-default 10 Gb/s layout places the transmitter in VXI slots 3/4/5, to the right of J1421A, connected by the supplied semi-rigid cable. Do not connect its optical output directly to a J1420B input (0 dBm damage limit).



MODEL

**Agilent / Keysight
J1422B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

J1422B

LISTING

<https://aumictechlabs.com/products/j1422b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight J1422B is a SpectralBER transmitter module designed to extend network analyzer capabilities for RF and microwave measurements. Operating at 1550 nm wavelength with

a 10 Gb/s data rate, this VXI-based accessory integrates with compatible Keysight network analyzer systems to enable high-speed optical signal generation and characterization. Technical Specifications Product Type: SpectralBER Transmitter Module Wavelength: 1550 nm Data Rate: 10 Gb/s Form Factor: VXI module for standard VXI chassis installation Key Features Operates as a specialized transmitter for optical data transmission testing Module-based architecture for integration into VXI instrumentation systems Designed for use with Keysight network analyzer platforms including PNA and ENA series VXI backplane connectivity with SCPI command support Typical Applications High-speed digital and optical communication system characterization RF and microwave device testing with optical signal integration Network analyzer capability extension for advanced measurement scenarios Compatibility & Integration The J1422B interfaces with compatible Keysight/Agilent network analyzers through VXI modular instrumentation architecture. It connects via the VXI backplane and supports standard SCPI commands for instrument control. Integration with measurement systems is facilitated through Keysight's IO Libraries Suite, which provides connectivity management across multiple interface protocols.

J1422B Characteristics / Specifications

PARAMETER	VALUE
Model	J1422B
Instrument Type	SpectralBER 10 Gb/s DWDM transmitter
Data Rate	9.953 Gb/s
Product Name	DWDM Transmitter Module 9.953Gb/s
Framing	SDH/SONET STM-64 / OC-192 framed signals
Laser Class	Class I (non-hazardous) laser product
Form Factor	message-based C-size VXI
Factory Default Slots	3, 4, and 5 in the 10 Gb/s example layout
Related Clock	J1421A Clock Source Module
Related Receiver	J1420B Receiver Module
Host Command	E1406A Command Module
Mainframe	C-size VXI
Optical Caution	do not exceed 0 dBm into J1420B; do not loop J1422B directly into J1420B
Control	SCPI, Universal Instrument Drivers, Soft Front Panel
Manufacturer	Agilent Keysight HP
Use Case	10 Gb/s DWDM transmit
Literature	Agilent SpectralBER System Installation and System Reference Manual J1422B
Family	SpectralBER 10 Gb/s
Cabling	semi-rigid cable from J1421A clock source
Documentation Type	OEM SpectralBER installation manual
Brand Lineage	HP Agilent Keysight SpectralBER
System Role	10 Gb/s DWDM transmitter
Payload Class	PRBS payloads for BER with J1420B

J1422B Specifications

PARAMETER	VALUE
Applications	10 Gb/s STM-64/OC-192 DWDM stimulus into SpectralBER receivers and DUT line cards.
Key Features	9.953 Gb/s STM-64/OC-192 transmit
Class I laser	C-size VXI with J1421A clock
Technical Specifications	Model: J1422B

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	J1422B
Instrument Type	SpectralBER 10 Gb/s DWDM transmitter
Data Rate	9.953 Gb/s
Product Name	DWDM Transmitter Module 9.953Gb/s
Framing	SDH/SONET STM-64 / OC-192 framed signals
Laser Class	Class I (non-hazardous) laser product
Form Factor	message-based C-size VXI
Factory Default Slots	3, 4, and 5 in the 10 Gb/s example layout
Related Clock	J1421A Clock Source Module
Related Receiver	J1420B Receiver Module
Host Command	E1406A Command Module
Mainframe	C-size VXI
Optical Caution	do not exceed 0 dBm into J1420B; do not loop J1422B directly into J1420B
Control	SCPI, Universal Instrument Drivers, Soft Front Panel
Manufacturer	Agilent Keysight HP
Use Case	10 Gb/s DWDM transmit
Literature	Agilent SpectralBER System Installation and System Reference Manual J1422B
Family	SpectralBER 10 Gb/s
Cabling	semi-rigid cable from J1421A clock source
Documentation Type	OEM SpectralBER installation manual
Brand Lineage	HP Agilent Keysight SpectralBER
System Role	10 Gb/s DWDM transmitter
Payload Class	PRBS payloads for BER with J1420B
Notes	
From Agilent SpectralBER installation/reference manual (J1422B 9.953 Gb/s STM-64/OC-192 ClassItransmitter,	

default slots 3/4/5). Launch power, wavelength, and extinction ratio are in the J1422B transmitter specification document in the system 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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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.