



Agilent Technologies

# **OmniBER OTN 10G Jitter Analyzer**

Configuration Guide



**Agilent Technologies**

**Configuration and Ordering**

		<b>Item Number</b>	
<b>1 OmniBER OTN base product</b> This MUST be ordered	OmniBER OTN Communications performance analyzer & jitter	J7231B	<input checked="" type="checkbox"/>
<b>2 Mainframe type</b> One option MUST be ordered	Mainframe - side mounted connectors	J7231B-004	<input type="checkbox"/>
	Mainframe - rear mounted connectors	J7231B-005	<input type="checkbox"/>
<b>3 SONET/SDH 10 Gb/s optical interface</b> This MUST be ordered	SONET/SDH optical testing at 10Gb/s - 1550nm transmit wavelength	J7231B-108	<input checked="" type="checkbox"/>
<b>4 SONET/SDH multirate test 52 to 2488 Mb/s optical plus 52 to 155 Mb/s electrical</b> One option MUST be ordered	52 to 2488 Mb/s interfaces not required	J7231B-100	<input type="checkbox"/>
	Multirate SONET/SDH test 52 to 2488Mb/s - 1310nm transmit wavelength	J7231B-104	<input type="checkbox"/>
	Multirate SONET/SDH test 52 to 2488Mb/s - 1550nm transmit wavelength	J7231B-105	<input type="checkbox"/>
	Multirate SONET/SDH test 52 to 2488Mb/s - 1310/1550nm transmit wavelength	J7231B-106	<input type="checkbox"/>
<b>5 Optical Transport Network test to ITU-T G.709</b>	OTU2 testing at 10.71 Gb/s	J7231B-112	<input type="checkbox"/>
<b>6 Exchangeable optical connectors</b> One option MUST be ordered	FC/PC	J7231B-609	<input type="checkbox"/>
	SC	J7231B-610	<input type="checkbox"/>
	ST	J7231B-611	<input type="checkbox"/>
<b>7 Enhanced mapping structures firmware upgrade</b>	Adds VT/TU mappings, alarm stress test, intrusive thru mode and 52-155Mb/s coded electrical interfaces	J7231B-510	<input type="checkbox"/>
<b>8 DS<sub>n</sub>/PDH testing Firmware upgrade</b>	Adds DS <sub>n</sub> /PDH framed/unframed testing plus DS <sub>n</sub> /PDH electrical interfaces	J7231B-012	<input type="checkbox"/>

**Every OmniBER OTN is shipped with the following items as standard:**

- Certificate of calibration
- Printed Quick Reference Guide
- Printed verification manual
- Printed installation manual
- CD-ROM containing all manuals and UID software
- One optical patchcord and 15dB attenuator
- One **J7281A** DCC port converter cable
- Mains lead

**The following additional items may be ordered as required**

**Certificate of calibration**

**Option UK6:** Calibration certificate with test data

**Warranty and support plans**

1-year warranty supplied as standard

Warranty and calibration plan extensions to 3 and 5 years can be provided.

**Recommended Accessories**

**Transit Case**

**J7821A:** Transit case for OmniBER OTN J7231B with option 004 (side mounted connectors)

**Additional cables and adapters**

**J7281A:** DCC port converter cable 9-pin micro D-type to 37-pin D-type (RS-449 female)

**J7283A:** One FC/PC connector (exchangeable)

**J7284A:** One SC connector (exchangeable)

**J7285A:** One ST connector (exchangeable)

15512A Option H03: One Bantam to 3-pin Siemens adaptor

**Standards Conformance**

**EMC compliance**

The OmniBER OTN complies with European directive 89/336/EEC, and carries the CE\* mark accordingly.

It meets the following standards:

- ESD/mains fast transients/radiated susceptibility: meets EN50082-1 (1991)
- Radiation/conduction emissions: meets EN55011 (1991) class A
- Complies with Canadian standards ICES/NMB-001
- Complies with Australian EMC standards AS/NZS 2064.1-2 (1992)

**Product Safety**

The OmniBER OTN complies with the requirements of the European directive 73/23/EEC, and carries the CE\* mark accordingly. It meets the following safety standards:

- EN61010/IEC61010-1
- CSAC22.2#1010.1

*\* All products sold in EEC and ETSI countries must carry the CE mark*

## Product literature

You'll find ordering details for the OmniBER OTN J7231B in the product configuration guides at [www.agilent.com/comms/otn](http://www.agilent.com/comms/otn)

## Related products

### OmniBER OTN Family

The OmniBER OTN family is the industry's most comprehensive solution for testing ITU-T G.709 optical channel and SONET/SDH devices. Equipped with all standard telecom rates from 1.5 Mb/s to 10 Gb/s and 10.71 Gb/s (OTU-2) optical channel, the OmniBER OTN keeps you at the cutting-edge of next generation transport applications. For more information refer to publication no. 5988-6646EN, or [www.agilent.com/comms/otn](http://www.agilent.com/comms/otn)

### OmniBER XM Network Simulator

The Agilent OmniBER XM network simulator offers fast and thorough system verification test (SVT) to accelerate the time to market of next-generation SONET/SDH network equipment. With multi-channel, multi-port, multi-rate and multi-user capability, the OmniBER XM can generate (in terminate or intrusive-thru mode) realistic network signals using mixed payloads, with errors and alarms, on up to 192 STS-1/AU-3 channels or up to 1344 VT1.5/TU-11 channels simultaneously. This replicates real network conditions to truly stress-test network elements, and increases the effectiveness of verification test. The OmniBER XM also simultaneously measures each channel for errors, alarms, APS switching durations, and correct connectivity, reducing test times and uncovering all performance issues. For more information, refer to [www.agilent.com/find/omniberxm](http://www.agilent.com/find/omniberxm)

### RouterTester 900

The RouterTester 900 E7880A Traffic Generation and Analysis application excels for testing layer 2 and 3 devices that are used in enterprise, metro/edge and core networks. Combined with the new 10/100 Ethernet and GbE PacketTest Cards, this flexible "packet blaster" offers a cost-effective solution for performing Ethernet traffic testing on switches, routers, next generation SONET/SDH Multi-Service Provisioning Platforms and many other devices. For more information refer to publication no 5988-9860EN.

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[www.agilent.com/comms/omniber](http://www.agilent.com/comms/omniber)

