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OmniBER OTN J7232A 2.5G Communications Performance Analyzer

Configuration Guide



Agilent Technologies

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Configuration and ordering

			Item number	
1.	**OmniBER OTN base product** *This MUST be ordered*	OmniBER OTN 2.5 G Communications performance analyzer	J7232A	✓
2.	**Mainframe type** *SONET/SDH both supported* *One option MUST be ordered*	Mainframe – side mounted connectors	J7232A-004	☐
		Mainframe – rear mounted connectors	J7232A-005	☐
3.	**SONET/SDH multirate test 52 Mb/s to 2.5 Gb/s optical plus 52 to 155 Mb/s electrical** *One option MUST be ordered*	Multirate SONET/SDH optical testing from 52 Mb/s to 2.5 Gb/s – 1310 nm transmit wavelength	J7232A-104	☐
		Multirate SONET/SDH optical testing from 52 Mb/s to 2.5 Gb/s – 1550 nm transmit wavelength	J7232A-105	☐
		Multirate SONET/SDH optical testing from 52 Mb/s to 2.5 Gb/s – 1310/1550 nm transmit wavelength	J7232A-106	☐
4.	**Exchangeable optical connectors** *One option MUST be ordered*	FC/PC	J7232A-609	☐
		SC	J7232A-610	☐
		ST	J7232A-611	☐
5.	**Next generation SONET/SDH capability**	Ethernet over SONET/SDH via GFP (F&T), LAPS, contiguous concatenations of (STS-6c, 9c, 24c and AU-4-2c, 3c, 8c) and mixed mappings	J7232A-320	☐
6.	**Next generation SONET/SDH upgrade***	Virtual concatenation – high order (STS-3c/STS-1 and AU-4/AU-3) and low order (VT2/VT1.5 and TU3/TU-12/TU-11) mappings with delay generation to ITU-T G.707. ***(Must also order J7232A-320)***	J7820A-500	☐
7.	**DSn/PDH testing**	Adds DSn/PDH framed/unframed testing plus DSn/PDH electrical interfaces	J7232A-012	☐

*** NOTE: Contact your Agilent Sales Representative for information on availablity**

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

- Certificate of calibration.
- Printed quick reference guide.
- Printed installation manual.
- CD-ROM containing all manuals and UID software.
- One optical patchcord and 15 dB attenuator.
- One J7281A DCC port converter cable.
- One J7269A trigger output 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

J7266A: Transit case for OmniBER OTN J7232A 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 the Canadian standards ICES/NMB-001
- Complies with the 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*

TheOmniBER OTN is a
Class 1 laser product
EN60825-1: (1994)
IEC60825-1: (1993)

Class 1 laser product
FDA 23 CER CH.1 1040.10: (1994)

UNIVERSAL INSTRUMENT DRIVERS

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Product literature

You'll find further details of the OmniBER OTN J7232A's capability in the product specification publications no. 5988-6836EN or at 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, 2.66 Gb/s (OTU-1), and 10.71 Gb/s (OTU-2) optical channel, the OmniBER OTN keeps you at the cutting-edge of next generation transport applications. For further information refer to publication no. 5988-6646EN.



OmniBER XM Network Simulator

The OmniBER XM network simulator offers fast and thorough system verification test (SVT) for next-generation SONET/SDH network equipment. With multi-channel, multi-port, multi-rate and multi-user capability, the OmniBER XM can generate realistic network signals using mixed payloads, with errors and alarms, on up to 192 channels simultaneously. The OmniBER XM also simultaneously measures each channel for errors, alarms, APS switch durations,and connectivity. For further information refer to publication no. 5988-6647EN



Agilent Technologies manufactures the OmniBER OTN under a quality system approved to the international standard ISO 9001 plus TickIT (BSI Registration Certificate No FM 10987).

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Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

Our Promise

Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you use Agilent equipment, we can verify that it works properly, help with product operation, and provide basic measurement assistance for the use of specified capabilities, at no extra cost upon request. Many self-help tools are available.

Your Advantage

Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and on-site education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

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