

The J6804A Distributed Network Analyzer HD

Technology to quickly identify and solve problems



Key Features

- 8 or 16 Port 10/100/1000 Mbps Ethernet interfaces in a single test probe
- Select copper or optical Ethernet interfaces
- Each Ethernet interface port contains one transmitter and one receiver
- Additional Ethernet interface on rear panel used for DNA HD management and configuration
- The DNA HD is network addressable and configurable
- Set telemetry (control) IP address from front panel
- NTP network synchronization through rear panel Ethernet sync port
- Line rate user plane and control (signaling) plane analysis
- Data acquisition, comprehensive traffic filtering, and packet forwarding
- Remotely upgrade firmware

Supported Configurations

- The probe has 16 front ports and one rear management port for probe time synchronization and firmware updates
- The 16 front ports can be configured with the following SFP types:
 - Copper 1000Base-T, 100Base-TX, and 10Base-T
 - Gigabit Ethernet optical – short wavelength multi-mode SFP SX optical transceiver
 - Gigabit Ethernet optical – long wavelength single-mode SFP LX optical transceiver
- The rear management port has a 100Base-T Ethernet RJ-45 connector

The JDSU Distributed Network Analyzer High Density (HD) data acquisition probe provides high density advanced Ethernet packet processing capabilities for network monitoring and analysis. This versatile probe is designed to perform data acquisition and analysis for the JDSU NgN Analysis System and the JDSU Signaling Analyzer Real Time test and measurement applications.

The probe is 1U in height and 19 inches in width and is rack mountable. The DNA HD is available in AC or 48 volt DC power options.



Figure 1. DNA HD back panel showing all connections

Control/Sync (telemetry)

Network Time Protocol (NTP):
Time-synchronize a DNA HD to an external NTP server. Accuracy ± 20 msec. Communication is done through the separate Control and Sync Ethernet port.

GPS (SART solution only):
Synchronize any number of DNAs worldwide for time-correlated measurements. Accuracy ± 1 μ sec.

Control and Sync: Time-synchronize a daisy chain of up to 8 DNAs with no more than 10 meters of CAT-5 cable between any two DNAs. Supports up to 40 meters of cable in the total chain of DNAs. Accuracy ± 500 nsec.

Physical Specifications

J6804A DNA HD chassis

1U/19inch rack mount form factor, rack mount kit included	
Weight	5.3 kg; 11.6 lb
Dimensions	4.4 (h) x 44.2 (w) x 36.8 (d) cm; 1.75 x 17.4 x 14.5 inches

J6850A 8 port Gigabit Ethernet LIM

Weight	1.0 kg; 2.2 lb
Dimensions	4.4 (h) x 29.2 (w) x 27.3 (d) cm; 1.75 x 11.5 x 10.75 inches

J6851A 16 port Gigabit Ethernet LIM

Weight	1.3 kg; 2.8 lb
Dimensions	4.4 (h) x 29.2 (w) x 27.3 (d) cm; 1.75 x 11.5 x 10.75 inches

Power requirements

Option 1AC	AC: 100-240 V, ~50-60 Hz, 200 W MAX, Fuse 2.0 A 250 V
Option 1DC	DC: 36-72 VDC (+RTN -48 V) 200 W MAX, Fuse 5.0 A 250 V
Power dissipation/heat output	120 W

Temperature

Operating	+5 ° to +40 °C; +41 ° to +104 °F
Non-operating	-25 ° to +60 °C; -13 ° to +140 °F

Humidity

Operating	20% to 80% non-condensing
Non-operating	10% to 90% non-Condensing

Altitude

Operating	Up to 4,570 m (15,000 ft)
Non-operating	Up to 12,200 m (40,000 ft)

Regulatory compliances

EMC Qualification: IEC 61326-1
ICES-001
AS/NZS 2064.1

Product configuration and options

J6804A	Distributed Network Analyzer HD
J6804A-1AC	AC power supply
J6804A-1DC	DC power supply

Line interface modules

J6850A	8 Port 10/100/1000 Mbps Ethernet LIM
J6851A	16 Port 10/100/1000 Mbps Ethernet LIM

SFP port options

J6758A	SFP transceivers
J6758A-1SX	Multi-mode SFP
J6758A-1LX	Single-mode SFP
J6758A-1TX	1000 Base-T SFP

Test & Measurement Regional Sales

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