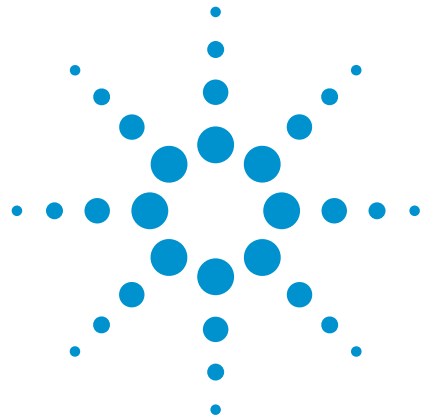




Agilent Technologies J6804A Distributed Network Analyzer HD

Data sheet



Technology to quickly identify and solve problems
in today's complex networks



The J6804A Distributed Network Analyzer HD

Introduction

The Agilent Technologies Distributed Network Analyzer 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 Agilent NgN Analysis System and the Agilent 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.

Solution benefits

The following are the key benefits of DNA-HD probe:

- 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



Figure 1. DNA HD back panel showing all connections

The J6804A Distributed Network Analyzer HD

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 DNA's with no more than 10 meters of CAT-5 cable between any two DNA's. Supports up to 40 meters of cable in the total chain of DNA's. Accuracy ± 500 nsec.

Physical characteristics

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 |

 **Agilent Email Updates**

www.agilent.com/find/emailupdates
Get the latest information on the products and applications you select.

 **Agilent Direct**

www.agilent.com/find/agilentdirect
Quickly choose and use your test equipment solutions with confidence.

Agilent
Open 

www.agilent.com/find/open
Agilent Open simplifies the process of connecting and programming test systems to help engineers design, validate and manufacture electronic products. Agilent offers open connectivity for a broad range of system-ready instruments, open industry software, PC-standard I/O and global support, which are combined to more easily integrate test system development.

LXI

www.lxistandard.org
LXI is the LAN-based successor to GPIB, providing faster, more efficient connectivity. Agilent is a founding member of the LXI consortium.

www.agilent.com/find/tpa
www.agilent.com/find/dna
www.agilent.com/find/networkanalyzer
www.agilent.com/find/sart

Remove all doubt

Our repair and calibration services will get your equipment back to you, performing like new, when promised. You will get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts. You will always have the utmost confidence in your measurements.

Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance, onsite education and training, as well as design, system integration, and project management.

For more information on repair and calibration services, go to:

www.agilent.com/find/removealldoubt

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Americas

| | |
|---------------|----------------|
| Canada | (877) 894-4414 |
| Latin America | 305 269 7500 |
| United States | (800) 829-4444 |

Asia Pacific

| | |
|-----------|----------------|
| Australia | 1 800 629 485 |
| China | 800 810 0189 |
| Hong Kong | 800 938 693 |
| India | 1 800 112 929 |
| Japan | 0120 (421) 345 |
| Korea | 080 769 0800 |
| Malaysia | 1 800 888 848 |
| Singapore | 1 800 375 8100 |
| Taiwan | 0800 047 866 |
| Thailand | 1 800 226 008 |

Europe & Middle East

| | |
|----------------|------------------------------|
| Austria | 0820 87 44 11 |
| Belgium | 32 (0) 2 404 93 40 |
| Denmark | 45 70 13 15 15 |
| Finland | 358 (0) 10 855 2100 |
| France | 0825 010 700* |
| | *0.125 € fixed network rates |
| Germany | 01805 24 6333** |
| | **0.14 €/minute |
| Ireland | 1890 924 204 |
| Israel | 972-3-9288-504/544 |
| Italy | 39 02 92 60 8484 |
| Netherlands | 31 (0) 20 547 2111 |
| Spain | 34 (91) 631 3300 |
| Sweden | 0200-88 22 55 |
| Switzerland | (French) |
| | 44 (21) 8113811 (Opt 2) |
| Switzerland | (German) |
| | 0800 80 53 53 (Opt 1) |
| United Kingdom | 44 (0) 118 9276201 |

Other European countries:
www.agilent.com/find/contactus

Revised: October 24, 2007

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2008
Printed in USA, April 2, 2008
5989-8311EN