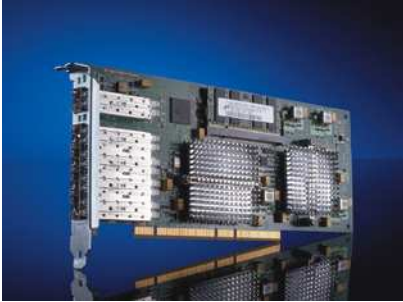


J6870A NgN Analysis System

10/100/1000 Mbps Ethernet Blade Interface



Key Features

- 5 Gigabit Ethernet Small Form Factor Pluggable (SFP) interfaces
 - 4 Monitor Ports 10/100/1000 Mbps Ethernet interfaces
 - 1 Port 10/100/1000 Mbps general purpose input output port (GPIO)
- Select copper or optical Ethernet SFP interfaces
- Each Ethernet interface port contains a single transmitter and a single receiver
- The GPIO Ethernet interface is for management, configuration, and transmission of packets and key performance indicators
- The J6870A Blade Interface is network addressable and configurable. Set telemetry (control) IP address via GPIO port.
- Full line rate user plane and control (signaling) plane analysis
- The Blade Interface provides signaling data acquisition, filtering, and RTP stream analysis. Please see the NgN Analysis System data sheet for details regarding measurement and analysis capabilities.
- Packet Mirroring – Copy the input of any monitor port to the output of any other monitor port
- Remotely upgrade firmware via the GPIO port

Supported Configurations

- The Blade Interface has four front panel ports for network monitoring or mirroring of network traffic and one additional front panel port for GPIO
- The five 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 JDSU 10/100/1000 Mbps Ethernet Blade Interface provides advanced Ethernet packet processing capabilities for the NgN Analysis System network monitoring and analysis solution. Acquire all specified signaling packets and perform RTP media analysis measurements on all packets monitored. Mirroring of traffic from a monitor port can direct data to other JDSU test tools.

The J6870A is a standard PCI/PCI-X compatible interface card.

Control/Sync (telemetry)

Network Time Protocol (NTP):

Time-synchronize the Blade Interface to an external NTP server. Accuracy ± 20 msec. Communication is done through the separate GPIO Ethernet port.



Figure 1. J6870A 10/100/1000 Mbps Blade Interface

Physical Characteristics

J6870A 4 Port 10/100/1000 Mbps Blade Interface

PCI/PCI-X standard height, 64 bit interface form factor	
Weight	0.29 kg; 0.65 lb
Dimensions	10.7 (h) x 1.79 (w) x 25.4 (d) cm; 4.2 x 0.7 x 10.0 inches

Power consumption

25 Watts

Power requirements

+5 volts, 2 amps and +3.3 volts 4.5 amps

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

J6870A	4 Port 10/100/1000 Mbps Ethernet Blade Interface
J6870A-001	Ethernet port mirroring
J6870A-002	NgNAS signaling routing engine
J6870A-003	RTP media analysis

SFP port options

J6758A	SFP transceivers
J6758A-15X	Multi-mode SFP
J6758A-1LX	Single-mode SFP
J6758A-1TX	10/100/1000 Mbps Base-T SFP

Supported NgN analysis system software

Release	NgN-AS release 4.10 or greater, QoS for Voice 1.0 or greater
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