



J6873A 10 Gigabit/1 Gigabit Ethernet Interface

Intelligent data access to quickly identify and solve problems in today's complex communication networks

The Viavi Solutions J6873A 10 Gbps / 1 Gbps Ethernet Interface provides advanced Ethernet packet capture and processing for Viavi's leading protocol test and diagnostic solution, the Signaling Analyzer.

Never miss a network problem, capture all the data all the time under any network load. The J6873A is a next-generation design providing full packet capture and analysis of Ethernet based traffic at up to 40 Gbps with zero packet loss for all frame sizes (from 64 to 10,000 bytes). The J6873A enables real-time data from multiple ports in the network to be captured and merged into a single analysis stream.

The J6873A interface provides packet acquisition, filtering, and analysis only. Please view the Signaling Analyzer collateral for details of network measurement and analysis capabilities.

J6873A Physical Specifications

Card Format	PCIe version 3
Data Transfer Modes	Bus master DMA Memory write or memory read transactions
Bus Type	8-lane 8 GT/s PCIe
Dimensions	½ length and full height PCIe
Power Consumption	30 Watts including SFP+, SR modules
Temperature – Operating	0 °C to 45 °C
Humidity – Operating	20% to 80%
Regulatory Compliances	PCI-SIG®, CE, CB, RoHS, REACH, cURus (UL), FCC, CSA, VCCI, C-TICK, KCC

Supported Configurations

The J6873A Ethernet interface can be configured with 4 SFP ports, or 4 SFP+ ports, and supports the following SFP and SFP+ types:

- SFP: Multi-mode SX 1000BASE-T, single-mode LX 1000BASE-T, and 10/100/1000BASE-T
- SFP+: Multi-mode SR, single-mode LR

Key Features

- PCIe interface card
- 4 Ethernet access and test ports (each port with single transmitter and receiver)
- 4 x 10Gbps SFP+ or 4 x 1Gbps SFP connections
- Full 40 Gbps data capture at line-rate and transfer to host
- 4GB DDR3 RAM capture buffer
- Packet time-stamping with 4 nanoseconds resolution
- IEEE 1588-2008 PTP software (and dedicated port) time synchronization support
- Nano-second time sync accuracy across two cards in same host
- Powerful frame filtering
- Frame processing with slicing and de-duplication

SFP Specifications

The SART J6873A 10G Interface Card only works with VIAVI certified SFPs sold under the following part numbers:

J6758A-10LR	10G LR
J6758A-10SR	10G SR
J6758A-1LX	1G SX
J6758A-1LX	1G LX
J6758ATX	1G Copper

10GBASE-SR SFP+ Optical Transceiver

Multi-mode fiber, 850 nm

Per IEEE 802.3ae 10GBASE-SR (Short Reach) specification

LC Duplex optical connector, conforming to ANSI TIA/EA 604-10 standard

RoHS compliant

10GBASE-LR SFP+ Optical Transceiver

Single-mode fiber, 1310 nm

Per IEEE 802.3ae 10GBASE-LR (Long Reach) specification

LC Duplex optical connector, conforming to ANSI TIA/EA 604-10 standard

RoHS compliant

Gigabit Ethernet 1000BASE-SX SFP Optical Transceiver

Multi-mode fiber, 850 nm

Per IEEE 802.3 1000BASE-SX specification

LC Duplex optical connector

RoHS compliant

Gigabit Ethernet 1000BASE-LX SFP Optical Transceiver

Single-mode fiber, 1310 nm

Per IEEE 802.3Z 1000BASE-LX specification

LC Duplex optical connector

RoHS compliant

10/100/1000 BASE-T Ethernet SFP Transceiver

Auto-Negotiation support for automatic duplex, speed and flow control

Per IEEE 802.3-2002 specification

RJ-45 copper connector

RoHS compliant

Product Configuration and Options

J6873A Product Options

J6873A	10 Gigabit / 1 Gigabit Ethernet Blade Interface
J6873A-10G	10 GigE / GigE Blade Interface

SFP Options

J6758A	SFP Transceivers
J6758A-1SX	1 GigE SX multi-mode optical fiber SFP
J6758A-1LX	1 GigE LX single-mode optical fiber SFP
J6758A-1TX	10/100/1000 Mbps Base-T copper SFP
J6758A-10SR	10GBASE-SR multi-mode optical fiber SFP
J6758A-10LR	10GBASE-LR single-mode optical fiber



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