Hybrid Passive Copper 100GbE QSFP28 to 4x 25GbE SFP28

Overview

The Wave2Wave 100GbE QSFP28 to 4×25GbE SFP28 Passive DAC provides a compact, high-performance interconnect for short-reach 100G to 25G data center links. Designed for switch-to-server and aggregation connections, it offers low latency, strong signal integrity, and zero power consumption for efficient, high-density deployments.

Each channel supports 25Gbps, combining for 100Gbps total bandwidth. Compliant with SFF-8402 and SFF-8665 standards, it ensures reliable interoperability across modern enterprise and cloud infrastructures.

Wave2Wave Hybrid Passive DACs simplify cabling, improve thermal efficiency, and deliver dependable performance for scalable 100G and 25G environments.



Features and Benefits

- Supports 100Gbps aggregate bandwidth (4×25Gbps per channel)
- IEEE 802.3bj 100GBASE-CR4 and P802.3by compliant
- Compatible with SFP28 MSA and QSFP28 MSA standards
- Meets SFF-8402, SFF-8431, SFF-8436, and SFF-8665 specifications
- High-density 38-pin QSFP28 and 4×20-pin SFP28 connectors
- Excellent signal integrity with low crosstalk and EMI performance
- Operating temperature: 0°C to 70°C
- Copper lengths up to 3 meters
- I2C-based EEPROM interface for customizable signature
- Passive design — zero power consumption

Applications

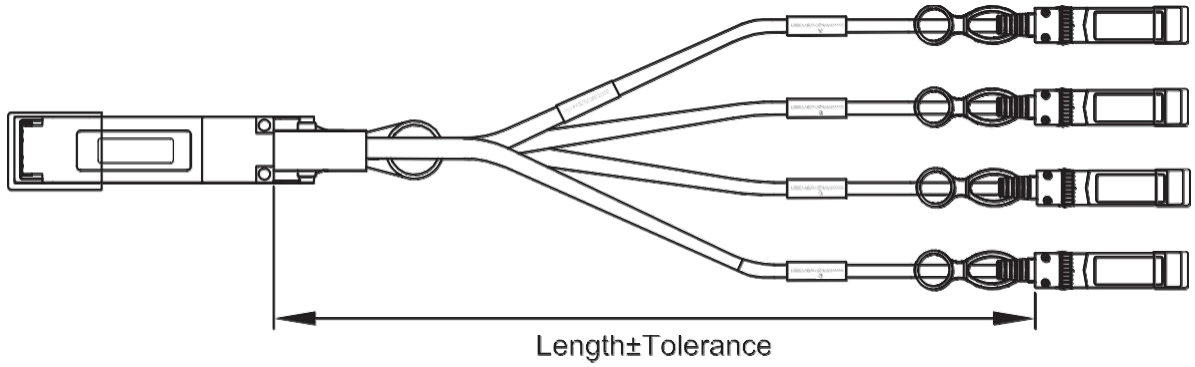
- 100GbE and 25GbE interconnects
- Switch, router, and HBA connectivity
- Fiber Channel over Ethernet (FCoE)
- Enterprise and SAN networks
- Data storage and communication systems
- High-density data center environments

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	ºC
Operating Case Temperature	Tc	0		+70	ºC
Power Supply Voltage	Vcc3	3.14	3.3	3.47	V

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Mechanical Diagram



Product Selection

Part Number: 75-ZS040-XX		Length	AWG
xx	1M	1 meter cable	30
	2M	2 meter cable	30
	3M	3 meter cable	30
	4M	4 meter cable	24
	5M	5 meter cable	24

Custom Cable Lengths and Colors also Available

Standards Compliance

- IEEE 802.3bj
- IEEE P802.3by
- InfiniBand EDR
- SFF-8402
- SFF-8431
- SFF-8436
- SFF-8665
- SFP28 MSA
- QSFP28 MSA
- RoHS

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