QSFP28 100G DAC

QSFP28 · 100G · passive direct attach copper cable (DAC) · 0.5m, 1m, 1.25m, 1.5m, 2m, 2.5m, 3m, 4m, 5m · NVIDIA compatible

The GLOBALfiber Q100G-DAC-NV is a 100G passive direct attach copper cable (DAC) with QSFP28 connectors for NVIDIA InfiniBand and Ethernet networks. It is available in lengths of 0.5m, 1m, 1.25m, 1.5m, 2m, 2.5m, 3m, 4m, 5m and is coded for NVIDIA equipment with InfiniBand or Ethernet coding.



KEY FEATURES

- QSFP28
- 100G, 4 × 25G NRZ
- Twinax copper, 30 AWG (26 AWG for longer lengths)
- Power consumption < 0.5 W
- Lengths 0.5m, 1m, 1.25m, 1.5m, 2m, 2.5m, 3m, 4m, 5m
- Hot-pluggable, 0 to +70 °C

APPLICATIONS & COMPATIBILITY

- NVIDIA switches: Switch-IB 2 SB7800/SB7890, Quantum QM8700/QM8790 (HDR100/EDR)
- NVIDIA adapters / systems: ConnectX-4, ConnectX-5, ConnectX-6, ConnectX-6 Dx, ConnectX-7, BlueField-2/3
- Replaces NVIDIA MCP1600-C001E30N, MCP1600-C002E26N, MCP1600-C002E30N, MCP1600-C003E26N, MCP1600-C003E30L, MCP1600-C005E26L, MCP1600-C00AE30N, MCP1600-C01AE30N and more

KEY SPECIFICATIONS

Cable type	passive direct attach copper cable (DAC)
Connectors	QSFP28
Data rate	100G
Lanes	4 × 25G NRZ
Conductor / fiber	Twinax copper, 30 AWG (26 AWG for longer lengths)
Power consumption	< 0.5 W
Operating temperature	0 to +70 °C
Management	SFF-8636 EEPROM
Protocol	InfiniBand or Ethernet (EDR / 100GbE)

ORDERING INFORMATION

GLOBALfiber item	Length	Coding	Replaces NVIDIA
Q100G-DAC0M5-NVI	0.5m	IB InfiniBand	MCP1600-E00AE30
Q100G-DAC0M5-NVE	0.5m	ETH Ethernet	MCP1600-C00AE30N
Q100G-DAC1M-NVI	1m	IB InfiniBand	MCP1600-E001E30
Q100G-DAC1M-NVE	1m	ETH Ethernet	MCP1600-C001E30N
Q100G-DAC1M25-NVI	1.25m	IB InfiniBand	MCP1600-E01BE30
Q100G-DAC1M5-NVI	1.5m	IB InfiniBand	MCP1600-E01AE30
Q100G-DAC1M5-NVE	1.5m	ETH Ethernet	MCP1600-C01AE30N
Q100G-DAC2M-NVI	2m	IB InfiniBand	MCP1600-E002E30
Q100G-DAC2M-NVE	2m	ETH Ethernet	MCP1600-C002E30N
Q100G-DAC2M5-NVI	2.5m	IB InfiniBand	MCP1600-E02AE26
Q100G-DAC2M5-NVE	2.5m	ETH Ethernet	MCP1600-C02AE30L
Q100G-DAC3M-NVI	3m	IB InfiniBand	MCP1600-E003E26
Q100G-DAC3M-NVE	3m	ETH Ethernet	MCP1600-C003E30L
Q100G-DAC4M-NVI	4m	IB InfiniBand	MCP1600-E004E26
Q100G-DAC5M-NVI	5m	IB InfiniBand	MCP1600-E005E26
Q100G-DAC5M-NVE	5m	ETH Ethernet	MCP1600-C005E26L

Choose the coding that matches the host: InfiniBand for NVIDIA Quantum switches, Ethernet for NVIDIA Spectrum switches. Other lengths and coding on request: salg@globalfiber.no.

ENVIRONMENTAL

Operating temperature	0 to +70 °C
Storage temperature	-40 to +85 °C
Relative humidity	5 to 95 % (non-condensing)

COMPLIANCE

- QSFP28 MSA
- IEEE 802.3bj
- SFF-8665
- RoHS compliant

INSTALLATION NOTES

- Confirm that both host ports support the selected protocol, port mode and coding.
- Observe the minimum bend radius and leave room for cable routing and airflow.
- Choose a length with sufficient routing margin; do not pull on the cable when removing — use the pull tab.

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