

## 800G QSFP-DD to 2x400G QSFP112 ACC

### P/N: GQD-2QA801-XXC

#### Features

- ✓ Hot-plug QSFP-DD&QSFP112 form factor
- ✓ Support 8x 50/100Gb/s PAM4 modulation with 16 pairs
- ✓ Support up to 5m length
- ✓ 100 ohm differential impedance system
- ✓ 3.3V power supply & typical power consumption 2.5W
- ✓ Commercial case temperature range of 0°C to 70°C
- ✓ I2C management

#### Applications

- ✓ Infiniband NDR/HDR/EDR
- ✓ Switch / router / HBA
- ✓ Enterprise network
- ✓ Data Center Network
- ✓ Data storage and communication industry

#### STANDARDS COMPLIANCE

- ✓ IEEE P802.3ck D3.0
- ✓ QSFP-DD/QSFP112 MSA HW Rev 6.01
- ✓ CMIS 4.0
- ✓ RoHS

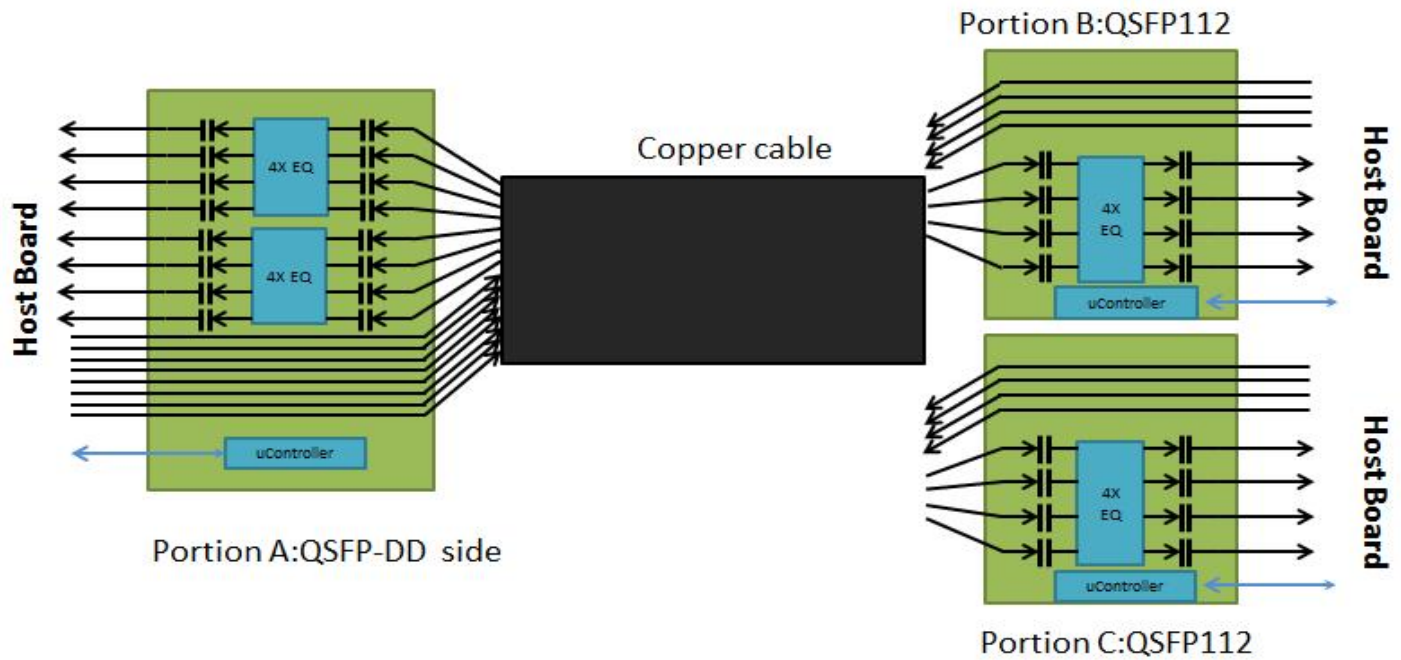
#### Description

Gigalight's ACC(Active Copper Cable) assembly series product provide superior signal integrity performance and reliability, comparing to PCC and AOC, ACC is a re-drive solution which built-in linear equalizer to compensate transmission loss, it is an effective solution with low power, low latency, low cost to help high-speed data centers even AI high-computational applications.

Gigalight's GQD-2QA801-XXC cable connects data signals from each of the 16 pairs on the single QSFP-DD end to the dual QSFP112 ends, each pair operates at data rates of up to 100Gb/s and can be adaptive downward compatibility. The product operates 3.3V power supply and comply with QSFP-DD MSA and IEEE802.3ck ,it's high performance & cost effective I/O solutions for LAN, HPC and SAN.



## • Block Diagram



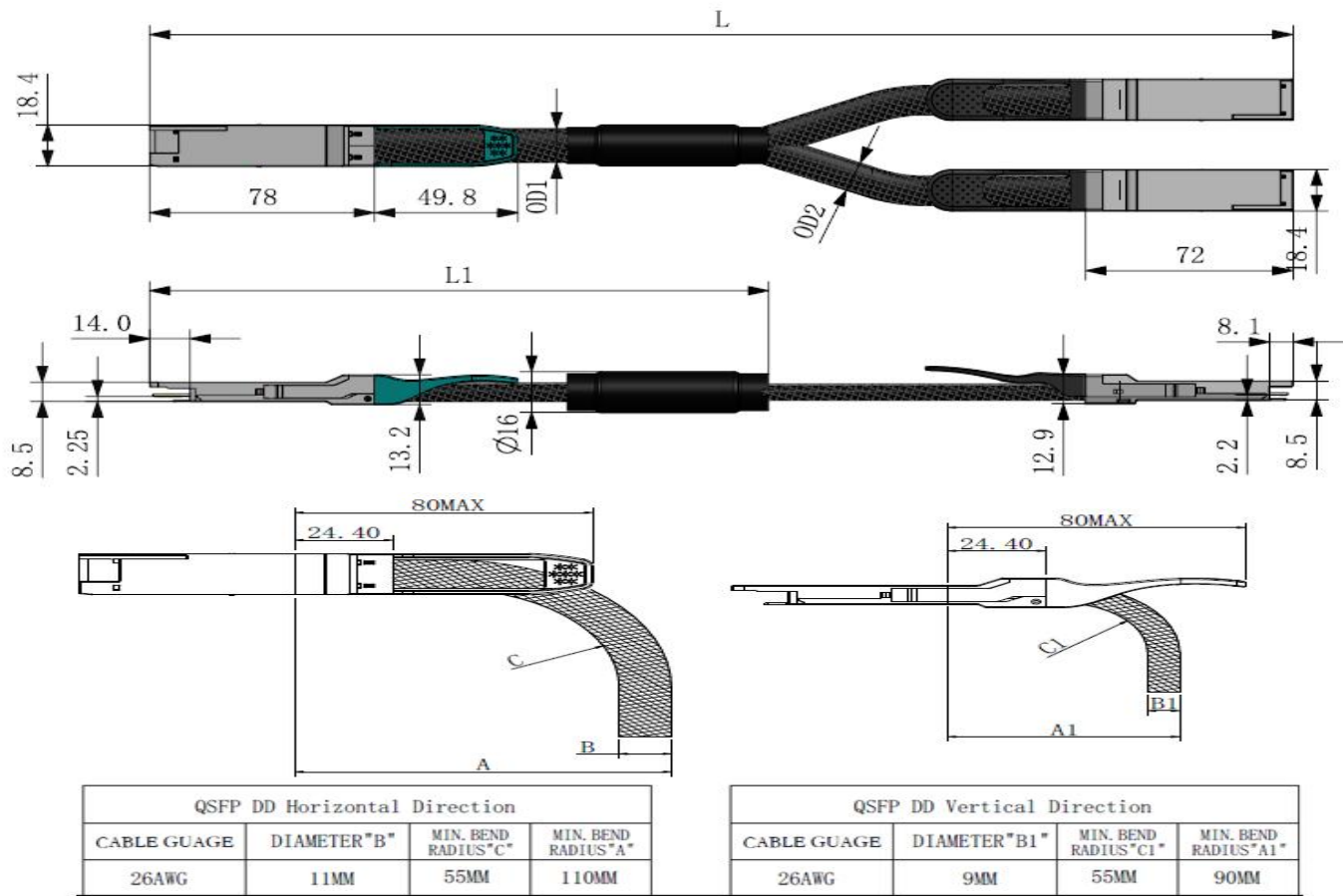
## Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Storage Temperature	$T_s$	-20	85	°C
Humidity (non-condensing)	Rh	5	95	%
Supply Voltage	Vcc	-0.3	3.6	V

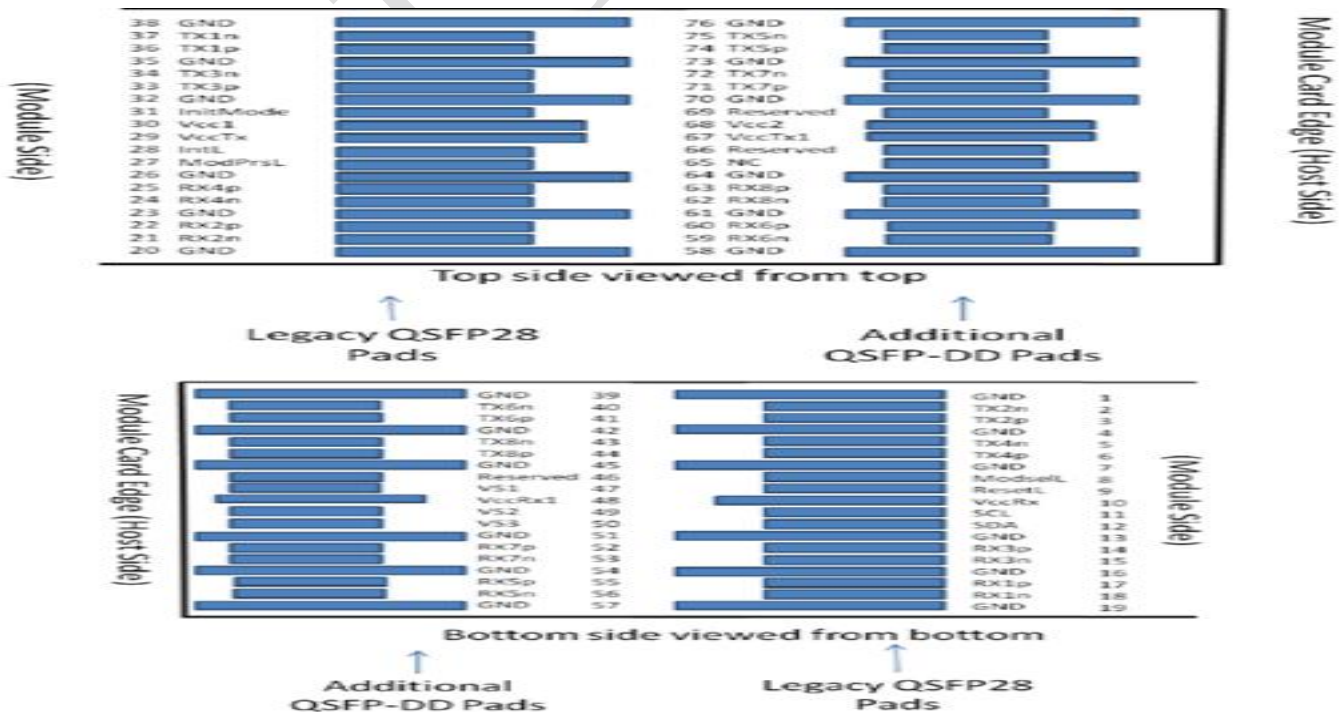
## Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case Temperature	$T_c$	0		70	°C
Supply Voltage	Vcc	3.13	3.3	3.47	V
Power consumption	Pd		2.5		W
Data Rate per lane(PAM4)	Fd1		53.125		GBaud/s
Data Rate per lane(NRZ)	Fd2	10.3125	53.125		Gbps
Humidity	Rh	5		85	%

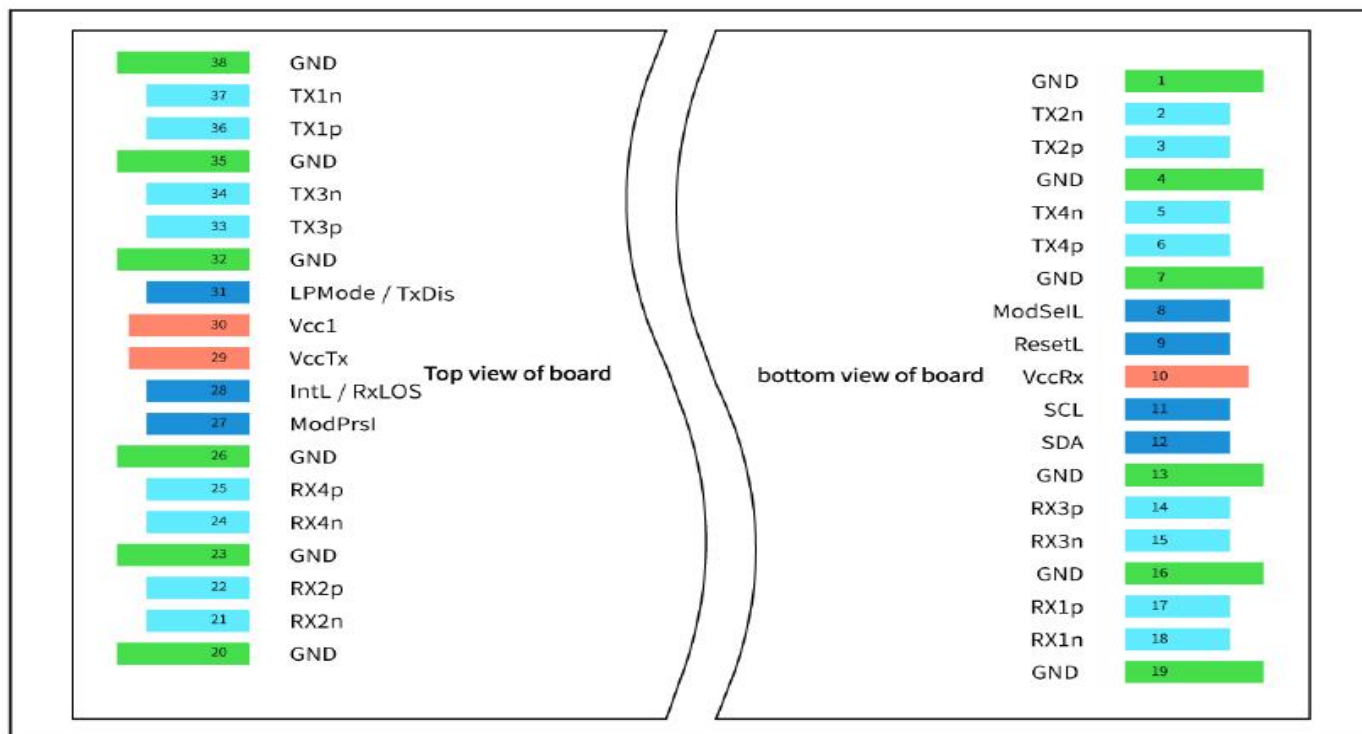
## Mechanical Dimensions



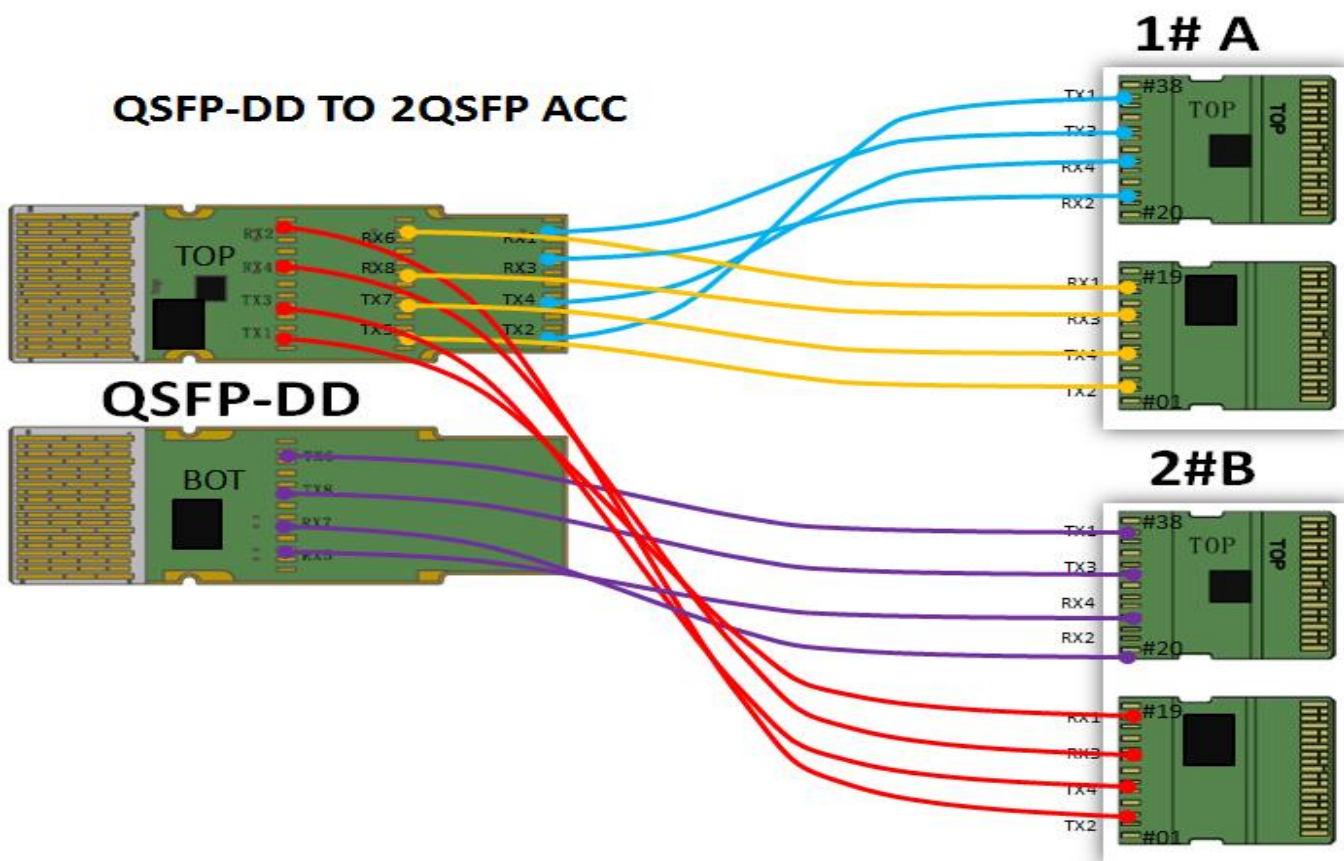
## QSFP-DD Electrical pinout



## QSFP112 Electrical pinout



## Wire connection diagram



## Ordering information

Part Number	GQD-2QA801-XXC
Length (meter)	2~5
Wire gauge (AWG)	AWG30/26

If length(meter) is decimal, PN should be as GQD-2QSFP801-DXXC.,the wire gauge also can be customized.  
It's recommend to choose Gigalight's 800G PCC for less than 2m reach.

## Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Gigalight before they become applicable to any particular order or contract.  
In accordance with the Gigalight policy of continuous improvement specifications may change without notice.

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## Revision History

Revision	Date	Description
Preliminary	Oct-11-2025	Advance Release.