



UC2

The UC2 module, which adopts the 100G Form-factor Pluggable 2 (CFP2) packaging, is designed for the high-speed and bidirectional telecommunication system.

The UC2 module supports up to 100 Gbit/s and OTU4 signal transmission with a distance up to 10 km (UC2-100G/LR4), 40 km (UC2-100G/ER4), 2400 km (UC2-100G/DCO), or 1200 km (UC2-200G/DCO).

The UC2 module complies with ITU-T and IEEE standards, and refers to the specifications of Multi Source Agreement (MSA). It adopts the standard Little Connector (LC) interface, electrical connector, and shielding shell, thus improving EMI performance.



Features

- Low power consumption, stable performance, high efficiency, and energy conservation
- Maximum power consumption in normal working conditions: 7.5 W (UC2-100/ER4) 6 W (UC2-100/LR4), 24 W (UC2-100G/DCO and UC2-200G/DCO)
- Maximum power consumption in low power consumption mode: 2 W
- Standard LC connector
- Adopt the single 3.3 V power supply.
- Support the commercial operating temperature (altitude: 0–1800 m) of -5 to 70°C. When the altitude increases by 220 m between 1800 m and 5000 m, the highest operating temperature of the UC2 optical module decreases by 1°C. The storage temperature is -40 to 85°C. The relative humidity is 5%–85% (non-condensing, non-icing inside)
- Metal packaging, and sound EMI characteristics
- Provide stronger monitoring feature (complying with CFP MSA Management Interface Specification).
- Comply with Class 1 laser safety standards.

Typical scenarios

- MAN, AN, and high-speed data communication devices
- Ethernet 100GE and OTN OTU4

Ordering information

Model	Description
UC2-100G/LR4	CFP2 packaging, compatible with 103.1 Gbit/s and 111.8Gbit/s, 10 km, dual fibers, LC interface, with wavelength of 1295.56/1300.05/1304.58/1309.14nm, commercial, DDM, RoHS
UC2-100G/ER4	CFP2 packaging, compatible with 103.1Gbit/s and 111.8Gbit/s, 40 km, dual fibers, LC interface, with wavelength of 1295.56/1300.05/1304.58/1309.14nm, commercial, DDM, RoHS
UC2-100G/DCO	CFP2 packaging, compatible with 103.1Gbit/s and 111.8Gbit/s, 2400 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS

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Model	Description
UC2-200G/DCO	CFP2 packaging, compatible with 103.1×2Gbit/s and 111.8×2Gbit/s, 1200 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS

Technical specifications

Model	Rate (Gbit/s)	Tx optical power, each lane (dBm)	Overload point, each lane (dBm)	Rx optical power, each lane (dBm)	Target distance (km)
UC2-100G/LR4 (100GE services)	103.1	-4.3 to 4.5	>5.5	-10.6 to 4.5	10
UC2-100G/LR4 (OTU4 services)	111.8	-0.6 to 4.0	> 5.5	-6.9 to 4 (extinction ratio: 4-7 dB) -8.8 to 2.9 (extinction ratio: > 7 dB)	10
UC2-100G/ER4 (100GE services)	103.1	-2.9 to 2.9	> 5.5	-20.9 to 4.5	40
UC2-100G/ER4 (OTU4 services)	111.8	-2.7 to 2.9	> 5.5	-23.2 to 4.5	40
UC2-100G/DCO	103.1 and 111.8	> -5	> 0	-18 to 0	2400
UC2-200G/DCO	103.1×2 and 111.8×2	> -10	> 0	-18 to 0	1200

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