FRM220-100GE-2Q
100G QSFP28 to QSFP28 Transponder

The FRM220-100GE-2Q is a 100G QSFP28 to QSFP28 3R transponder that provides media conversion and distance extension for 100G Ethernet links. The FRM220-100GE-2Q is developed for high capacity and long- distance optical transport solutions. It is a highly integrated platform for providing a unified 100G optical transport layer, supporting various 100G client services including 100GBASE-LR4/100GBASE-ER4 and 100GBASE-SR4. The FRM220-100GE-2Q is hot-swappable with two QSFP28 sockets for 100G QSFP28 transceivers. The installation and setup are simple plug and play. The FRM220-100GE-2Q can be inserted into any powered FRM220-CH20, CH08, CH04 chassis or CH02M, CH02/SMT standalone chassis with QSFP28 transceivers required for the application.

Features

- Device management via FRM220 chassis with NMC
- 100G link interface -- IEEE:100G QSFP28-SR4/LR4/ER4
- QSFP28 ports for flexibility and scalability
- Hot-swap support (module and interfaces)
- Supports BERT test function
- Supports DMI function for QSFP28 module
- Supports Loopback test function
- Supports Auto laser shutdown
- Supports LFPT function

Specifications

Equipment function	3R Transponder (Regenerator, Reshaper, Retimer)
Protocol	100GbE
Forward Error Correction Modes	RS-FEC (100GbE)
Line Interface	QSFP28
Client Interface	QSFP28
Transmission Distance	Up to QSFP28 module

Power requirement	Power input 12VDC	
	Power consumption: <18W	
Work Environment	Operating Temperature	0 ~ 40°C
	Storage Temperature	-10 ~ 70°C
	Humidity	5 ~ 90% (non-condensing)
Weight	300g	
Dimension	159.5 × 20.8 × 88mm (D×W×H)	
Certification	CE, FCC	

Application

Central Office / Optical Network Hub

100GE

100GE QSFP Client/Line

100GE QSFP28 Client/Line

Corporate Campus/POP

FRM220-100GE-2Q + CH02M Chassis

Ordering Information

Model Name	Description
FRM220-100GE-2Q	100G 3R QSFP28 to QSFP28 transponder card

Chassis Option

Model Name	Description
FRM220-CH20(HS)	2U 19", 20 slots rack mount chassis with high speed cooling fan and rack mounting kit
FRM220-AC(HP)	Chassis power module 90 ~ 264 VAC, IEC connector, 300W
FRM220-DC48(HP)	Chassis power module 36 ~ 75 VDC, 3 pin terminal block, 300W
FRM220-CH02M-AC/DC/AD	2-slot chassis with console port and AC, DC or AD power, with fan
FRM220-CH02/NMC-AC/DC/AD	2-slot chassis with fan, managed via optional NMC card and with AC, DC or AD power
FRM220-CH02/SMT-AC/DC/AD	2-slot chassis with fan, managed via optional NMC card and with AC, DC or AD power plus fan/power alarm detection

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.   www.ctcu.com / sales@ctcu.com

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