

## 100GE QSFP28 to QSFP28 3R 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
- Supports 25GE with break-out cable

### Specifications

<b>Equipment function</b>	3R Transponder (Regenerator, Reshaper, Retimer)
<b>Protocol</b>	100GbE
<b>Forward Error Correction Modes</b>	RS-FEC (100GbE)
<b>Line Interface</b>	QSFP28
<b>Client Interface</b>	QSFP28
<b>Transmission Distance</b>	Up to QSFP28 module
<b>Power Requirement</b>	Power input 12VDC Power consumption: <18W
<b>Work Environment</b>	Operating Temperature 0 ~ 40°C Storage Temperature -10 ~ 70°C Humidity 5 ~ 90% (non-condensing)
<b>Weight</b>	300g
<b>Dimension</b>	159.5 × 20.8 × 88mm (D×W×H)
<b>Certification</b>	CE, FCC

## 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	Chassis power module 90 ~ 264 VAC, IEC connector, 300W
FRM220-DC48	Chassis power module 36 ~ 60 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