FRM220-40G-2Q

40G Transponder

40G 3R Transponder

The FRM220-40G-2Q is a 40G QSFP+ to 40G QSFP+ 3R transponder that provides media conversion and distance extension for 40G Ethernet links. The FRM220-40G-2Q meets the growing need for more bandwidth for data centers and enterprises. The emergence of high-end servers and Ethernet switches with 40G Ethernet interfaces increases the need for media conversion (multi-mode to single-mode) and link range (single-mode to single mode) extension. The FRM220-40G-2Q is hot-swappable with two QSFP+ sockets for 40G QSFP+ transceivers. The installation and setup is simple plug and play. The FRM220-40G-2Q can be inserted into any powered FRM220-CH20,CH08, CH04 chassis or CH02M, CH02/SMT standalone chassis with QSFP+ transceivers required for the application.
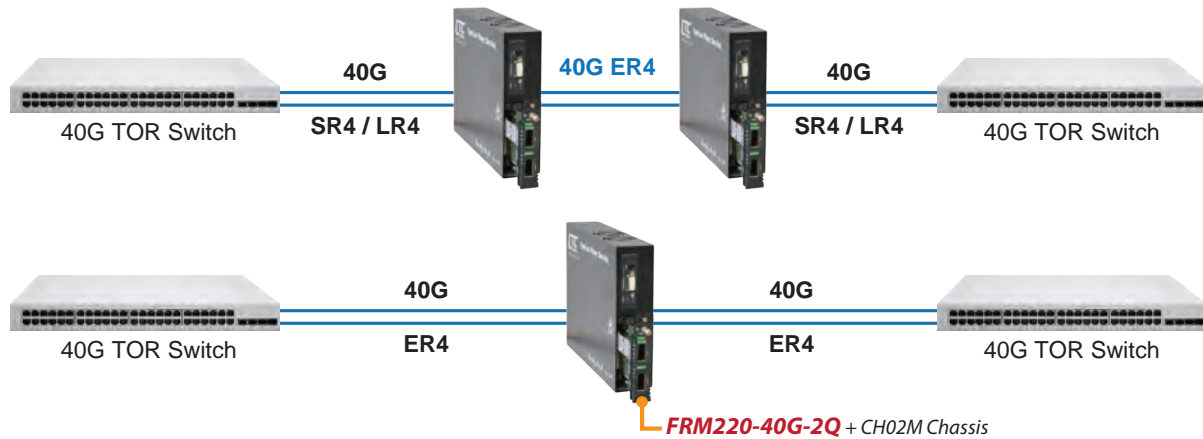
Features

- Device management via FRM220 chassis with NMC
- Supports 40G repeater mode or Quad 10G optical multiplexer mode
- 40G link interface -- Ethernet/IEEE: 802.3ba 40GESR4/LR4/ER4
- 40G multi-link (fiber) interfaces – Ethernet/IEEE: 802.3ba XLAUI and OIF: CEI-11G
- QSFP+ ports for flexibility and scalability

- Supports hot-swapping (module and interfaces)
- Supports jumbo frame
- Supports DMI function for QSFP+ fiber module
- RoHS compliant and Lead-Free
- Supports loopback test function
- 3R function (Regenerator, Reshaper, Retimer)
- Supports LFPT function

Specifications

Equipment function	3R Transponder (Regenerator / Reshaper / Retimer)
Protocol	Multiple functions in one module: 40G converter/repeater—Quad 10G optical multiplexer 40G link interface
	Ethernet/IEEE 802.3ba 40GE-SR4/LR4/ER4
	10G interface:9.95 ~ 11.3125Gbps
Access Type	40G Ethernet
Interface Type	QSFP+
Transmission Distance	Up to QSFP+ module
Power requirement	Power input 12VDC
	Power consumption: ≤12W
Work Environment	Operating Temperature 0 ~ 50℃
	Storage Temperature -10 ~ 70℃
	Humidity 5 ~ 90% (non-condensing)
Weight	130g
Dimension	159.5 × 20.8 × 88mm (D×W×H)
Certification	CE, FCC

Application

40G SR4/LR4/ER4 P to P application

40G TOR Switch — **40G SR4 / LR4** — **40G ER4** — **40G SR4 / LR4** — **40G TOR Switch**

40G TOR Switch — **40G ER4** — **40G ER4** — **40G TOR Switch**

FRM220-40G-2Q + CH02M Chassis

Ordering Information

Model Name	Description
FRM220-40G-2Q	40G QSFP+ to 40G QSFP+ 3R transponder card (optional 40G QSFP+ module)

■ 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 100~240 VAC, IEC connector, 200W
FRM220-DC48	Chassis Power module 36~60 VDC, 3 pin terminal block, 200W
FRM220-CH02M-AC/DC/AD	2-slot chassis with console port and AC or DC 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

Attention:

Please note that the maximum of 10 High Power Consumption cards can be inserted in CH20 chassis. They must be placed in the **EVEN** slots when inserted in CH20 chassis.

*High Power Consumption Cards: FRM220-100GE-2Q, 40G-2Q, 16G-3R, 10G-3R & 10GCM.