

**NEW**



# FRM220-40G-2Q

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 40GE-SR4/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)

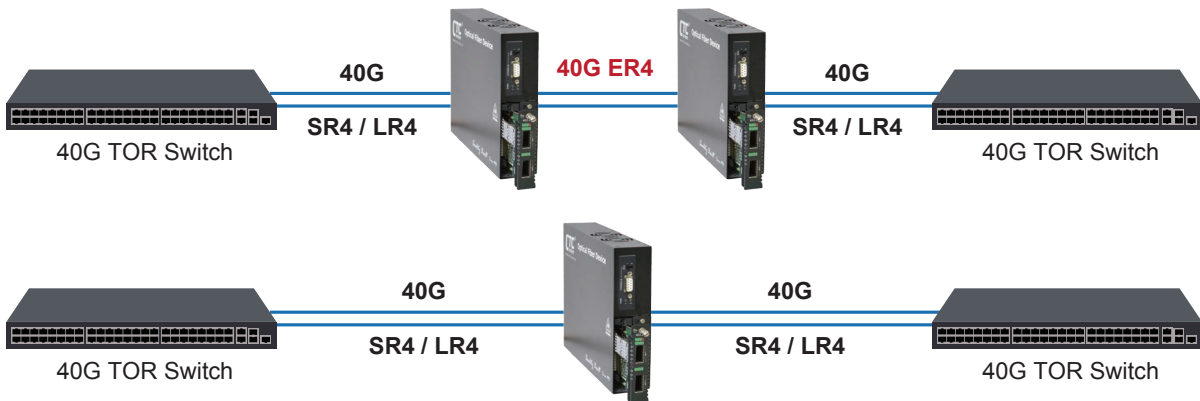
## Specifications

<b>Equipment function</b>	3R Transponder (Regenerator / Reshaper / Retimer)
<b>Protocol</b>	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
<b>Access Type</b>	40G Ethernet
<b>Interface Type</b>	QSFP+
<b>Transmission Distance</b>	Up to QSFP+ module

<b>Power requirement</b>	Power input 12VDC Power consumption: ≤12W
<b>Work Environment</b>	Operating Temperature 0 ~ 50°C Storage Temperature -10 ~ 70°C Humidity 5 ~ 90% (non-condensing)
<b>Weight</b>	130g
<b>Dimension</b>	Card: 155 x 20.8 x 88mm (D x W x H)

## Application

### 40G SR4/LR4/ER4 P to P application



-Related Products : FRM220-40G-1Q4S/FRM220-16G-3R/10G-3R/4G-3R/MP7G1X (40G, 16G, 10G, 4G, 3R Transponder/Muxpnmdr)

## Ordering Information

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

**Note:** This card MUST be placed in CH02M chassis with fan. For SNMP management, place this card in CH02/SMT chassis.