



FRM220-40G-1Q4S

40G QSFP⁺ to 4x 10G SFP⁺ Transponder

The FRM220-40G-1Q4S is a 40G QSFP+ to 4x 10G SFP+ transponder that provides media conversion and distance extension for 40G over 10G links. The FRM220-40G-1Q4S 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 extension. The FRM220-40G-1Q4S is a two slot wide hot-swappable card with one QSFP+ slot for QSFP+ 40G transceiver and four SFP+ slots for SFP+ 10G transceivers. The installation and setup is simple plug and play. The FRM220-40G-1Q4S can be inserted into any powered FRM220-CH20 chassis with QSFP+ and SFP+ transceivers required for the application.

Features

- Device Management via FRM220 Chassis with NMC
- Multiple functions in one module: 40G converter/repeater and Quad 10G optical multiplexer
- 40G link interface -- Ethernet/IEEE: 802.3ba 40GE-LR4
- 40G multi-link (fiber) interfaces -- Ethernet/IEEE: 802.3ba XLAUI and OIF: CEI-11G
- QSFP+ ports for flexibility and scalability
- Hot-swap support (module and interfaces)
- Supports 1x 40G QSFP+ and 4x 10G SFP+
- Supports DMI function for QSFP+ & SFP+ module
- Supports Loopback test function
- 3R function.

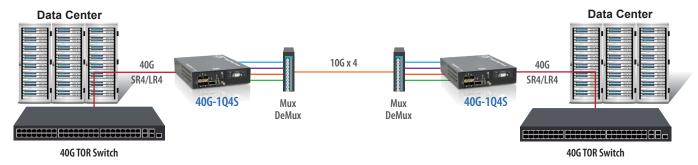
Specifications

| 3R Transponder, Regenerator, Reshaper, Retimer | |
|--|---|
| Aggregate Data Rate | 32 - 56.8 Gbps |
| Data Rate per Lane | 8 - 14.2 Gbps |
| CPRI x 16 | |
| STM - 64 | |
| OC - 192 | |
| FC8, FC10 | |
| 10G Ethernet | |
| 40Gbps: QSFP+ | (1 port), 10Gbps : SFP+ (4 ports) |
| | Aggregate Data Rate Data Rate per Lane CPRI x 16 STM - 64 OC - 192 FC8, FC10 10G Ethernet |

| & SFP+ module | | |
|--------------------------|--|--|
| Power input 12VDC | | |
| Power consumption: ≤12W | | |
| ~ 50°C | | |
| 10 ~ 70°C | | |
| 0 ~ 90% (non-condensing) | | |
| | | |
| mm (D x W x H) | | |
| | | |

Application

40G SR4/LR4 P to P application



-Related Products: FRM220-40G-2Q/16G-3R/10G-3R/4G-3R/MP7G1X (40G, 16G, 10G and 4G 3R Transponder/Muxponder)

Ordering Information

| Model Name | Description |
|-----------------|---|
| FRM220-40G-1Q4S | $40 G converter/repeater, Quad\ 10 G\ Optical\ Multiplexer\ module\ with\ QSFP\ Interfaces\ (optional\ SFP^+,QSFP^+)$ |

Note: This card MUST be placed in CH02M chassis with fan. For SNMP management, place this card in CH04A chassis.