# FRM220-TM-10GMux
## 7× 1 GE to 10G Muxponder

The FRM220-TM-10GMux is a 7× 1GE to 10G Muxponder. Based on TDM technology, the Muxponder transports seven separate Gigabit Ethernet data streams into a 10 Gbps SFP+ Based trunk port. This solution provides significant cost reduction and excellent fiber utilization when compared to CWDM optical multiplexing. The FRM220-TM-10GMux incorporates 7x 1GE SFP based access interfaces that can accommodate various types of SFP. Such as Multi-mode, Single mode and 1Gbps copper SFPs. The trunk port is a SFP+ 10Gbps permitting flexible connectivity options between the Muxponders either in a WDM system or directly between two devices. Two types of housings are available for installation in a 19" FRM220 chassis. 20 slots are provided by using the FRM220-CH20 chassis 2U while the 8 slots are provided by using FRM220-CH08 Chassis 1U. Both housings can be monitored and configured through SNMP, Web GUI or Telnet using a NMC management module.
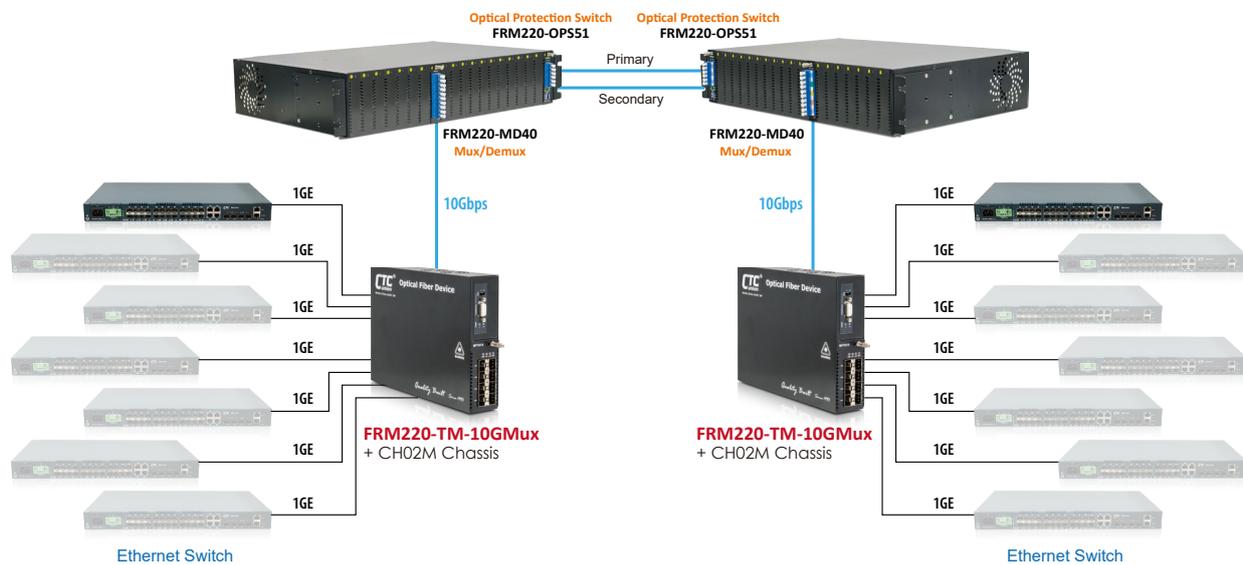
## Features

- 7× 1 GE to 10G
- 10 Gbps trunk port rate
- Network management via NMC
- Remotely activated local or remote loopback
- 7 independent 1 GE services over 10G trunk port

- Supports ITU-T C-band tunable DWDM SFP+ transceiver
- SFP+ digital diagnostics monitoring
- Hot swappable
- In-Band management
- Supports LFPT function

## Specifications

| | | | | |
|---|---|---|---|---|
| Access Data Rate | 1G Ethernet | | Relative Humidity | 10 ~ 90% (non-condensing) |
| Trunk Data Rate | 10Gbps | | Dimension | 159.5 × 42.1 × 88mm (D×W×H) |
| Optical parameters | 1.25G SFP/10G SFP+ | | Weight | 300g |
| Operating Temperature | 0 ~ 55°C | | Connectors | 7× SFP-LC & 1x SFP+ LC |
| Storage Temperature | -10 ~ 80°C | | Power Consumption | 12W |

## Application



## Ordering Information

| Model Name | Description |
|---|---|
| FRM220-TM-10GMux | 7× 1GE (SFP) to 10G (SFP+) muxponder card (optional 10G SFP+ / GE SFP 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-CH20-AC | Chassis Power module 100~240 VAC, IEC connector, 200W |
| FRM220-CH20-DC48 | Chassis Power module 36~72 VDC, 3 pin terminal block, 200W |
| FRM220-CH02M-AC/DC/AD | 2-slot chassis with console port and AC, DC or AD power, with fan |
| FRM220-CH04A-AC/DC/AD | 4-slot chassis with built-in AC, DC or AD power |