



FRM220-OADM

Optical Add-Drop Multiplexer

The FRM220-OADM Optical Add/Drop Multiplexer are modular designed cards that support ITU-T G.694.2 wavelengths between 1270nm to 1610nm in 20nm increments. The FRM220-OADM Optical Add/Drop Multiplexer takes a single wavelength from a trunk, pulls the signal out, and allows a new signal at the same wavelength to be inserted into the trunk at roughly the same spot. All the other wavelengths pass through the Add/Drop Multiplexer with only a small loss of power (usually < 2.5dB including connectors and adapters). An Optical Add/Drop Multiplexer (OADM) is available allowing a single wavelength to be dropped or added at specific sites in linear Add/Drop topology. FRM220-OADM modules are passive devices that require no external power. They can also be installed in an FRM220 powered chassis with a NMC management module¹ and can be managed using SmartView EMS network management software, Telnet or a serial console port. The FRM220-OADM modules can be installed in any FRM220 chassis equipped with other FRM220 media converters and transponders to provide a multiservice platform capable of delivering Ethernet, TDM, Voice and other services across a CWDM fiber common link.

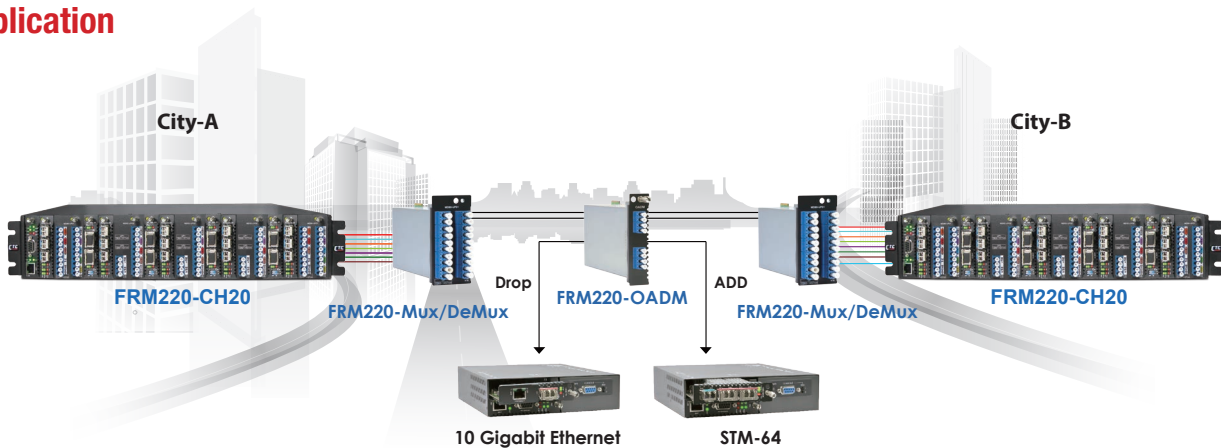
Features

- Single Add/Drop Channel
- Operating channel : 1311,1471,1491,1511,1531,1551,1571,1591,1611 nm
- Passive optical module, no power required
- Protocol transparent, no limitation
- Utilizes Industry standard ITU CWDM wavelengths
- Optical connectors : LC

Specifications

| | | | |
|--|---|----------------------------|--|
| Number of channels | CWDM: 1 add/drop channel, 2 add/drop channels | Optical Return Loss | >= 50dB |
| Operating Channel CWDM add & drop channel | Any channels out of 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm (to be defined via order information) | PDL | >= 0.1dB |
| Channel width: CWDM channels | >=13nm (around center wavelength) | Environment | Temperature : 0 ~ 50°C (Operating), -20 ~ 70°C (Storage) |
| Insertion Loss | IN-OUT >= 2.5 dB Add to Drop < 2.0 dB | Fiber Type | 9 / 125 / 250um |
| Isolation | CWDM adjacent channel Isolation >= 30dB CWDM non-adjacent ch's at CWDM drop port >= 35dB | Dimensions | 162 x 220 x 25mm (W x D x H) |
| | | Weight | 0.9kg |
| | | Compliance | FCC part 15 class A, CE Mark |

Application



Ordering Information

| Model Type | Model Name | Description | Model Name | Description |
|---------------------------|-------------------------|---|-------------------------|---|
| One Fiber Add Drop Module | FRM220-OADM-W5961-E6159 | 1ch one fiber CWDM OADM-West T59/R61 East T61/R59 | FRM220-OADM-W5557-E5755 | 1ch one fiber CWDM OADM-West T55/R57 East T57/R55 |
| | FRM220-OADM-W5153-E5351 | 1ch one fiber CWDM OADM-West 51T/53R East 53T/51R | FRM220-OADM-W4749-E4947 | 1ch one fiber CWDM OADM-West T47/R49 East T49/R47 |
| | FRM220-OADM-W4345-E4543 | 1ch one fiber CWDM OADM-West T43/R45 East T45/R43 | FRM220-OADM-W3537-E3735 | 1ch one fiber CWDM OADM-West T35/R37 East T37/R35 |
| | FRM220-OADM-W3133-E3331 | 1ch one fiber CWDM OADM-West T31/R33 East T33/R31 | FRM220-OADM-W2729-E2927 | 1ch one fiber CWDM OADM-West T27/R29 East T29/R27 |
| Two Fiber Add Drop Module | FRM220-OADM-61 | 1ch two fiber CWDM OADM 1611nm with West/East lines | FRM220-OADM-59 | 1ch two fiber CWDM OADM 1591nm with West/East lines |
| | FRM220-OADM-57 | 1ch two fiber CWDM OADM 1571nm with West/East lines | FRM220-OADM-55 | 1ch two fiber CWDM OADM 1551nm with West/East lines |
| | FRM220-OADM-53 | 1ch two fiber CWDM OADM 1531nm with West/East lines | FRM220-OADM-51 | 1ch two fiber CWDM OADM 1511nm with West/East lines |
| | FRM220-OADM-49 | 1ch two fiber CWDM OADM 1491nm with West/East lines | FRM220-OADM-47 | 1ch two fiber CWDM OADM 1471nm with West/East lines |

Note: This Card is suitable for use in CH01 standalone chassis