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 1271nm to 1611nm 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). 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 module 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.
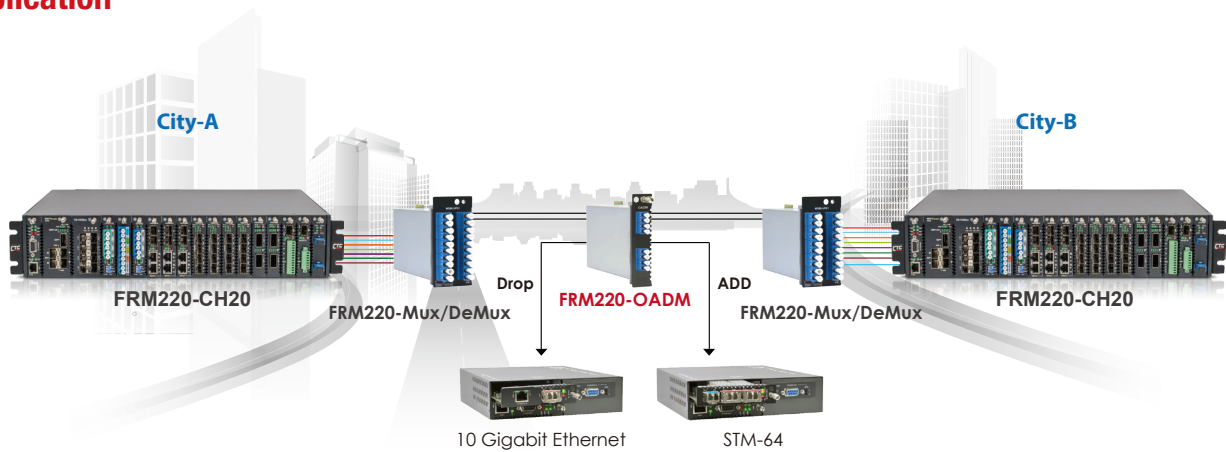
Features

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

Specifications

Number of channels	CWDM: 1 add/drop channel
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)
Channel width: CWDM channels	>=13nm (around center wavelength)
Insertion Loss	IN-OUT >= 2.5 dB
	Add to Drop < 2.0 dB
Isolation	CWDM adjacent channel Isolation >= 30dB CWDM non-adjacent ch's at CWDM drop port >= 35dB

Optical Return Loss	>= 50dB
PDL	>= 0.1dB
Environment	Temperature : 0 ~ 50°C (Operating), -20 ~ 70°C (Storage)
Fiber Type	9 / 125 / 250um
Dimensions	159.5 × 20.8 × 88mm (D×W×H)
Weight	200g
Compliance	FCC part 15 class A, CE Mark

Application

City-A

City-B

FRM220-CH20   FRM220-Mux/DeMux   Drop   **FRM220-OADM**   ADD   FRM220-Mux/DeMux   FRM220-CH20

10 Gigabit Ethernet   STM-64

Ordering Information

Model Type	Model Name	Description
Two Fiber Add Drop Module	FRM220-OADM-61	1ch two fiber CWDM OADM 1611nm with West/East lines
	FRM220-OADM-57	1ch two fiber CWDM OADM 1571nm with West/East lines
	FRM220-OADM-53	1ch two fiber CWDM OADM 1531nm with West/East lines
	FRM220-OADM-49	1ch two fiber CWDM OADM 1491nm with West/East lines
	FRM220-OADM-59	1ch two fiber CWDM OADM 1591nm with West/East lines
	FRM220-OADM-55	1ch two fiber CWDM OADM 1551nm with West/East lines
	FRM220-OADM-51	1ch two fiber CWDM OADM 1511nm with West/East lines
	FRM220-OADM-47	1ch two fiber CWDM OADM 1471nm with West/East lines