



FRM220-OADM

Optical Add-Drop Multiplexer

The FRM220 CWDM Optical Add/Drop Multiplexer is modular design 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.

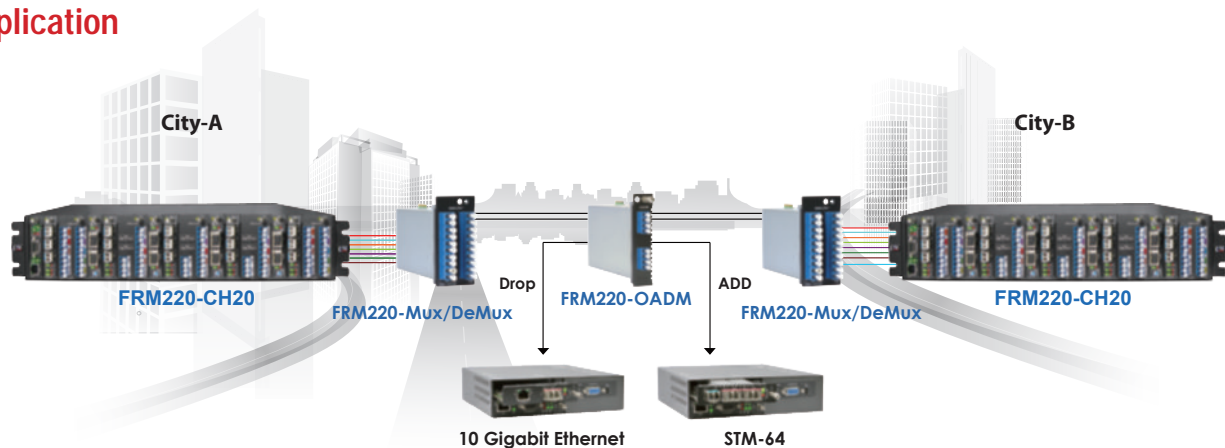
Features

- Single Add/Drop Channel
- Operating channel : 1311,1471,1491,1511,1531,1551,1571,1591,1611nm
- 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	$\geq 50\text{dB}$
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	$\geq 0.1\text{dB}$
Channel width: CWDM channels	$\geq 13\text{nm}$ (around center wavelength)	Environment	Temperature : 0 ~ 50°C (Operating), -20 ~ 70°C (Storage)
Insertion Loss	IN-OUT $\geq 2.5\text{ dB}$ Add to Drop < 2.0 dB	Fiber Type	9 / 125 / 250um
Isolation	CWDM adjacent channel isolation $\geq 30\text{dB}$ CWDM non-adjacent ch's at CWDM drop port $\geq 35\text{dB}$	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