



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.

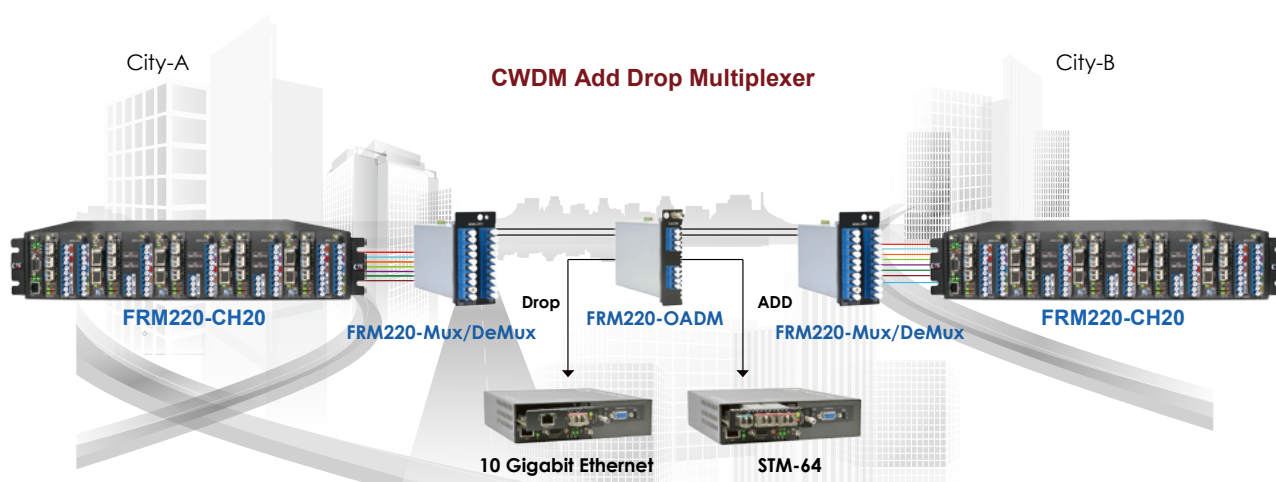
Features

- Single Add/Drop Channel
- Operating channel : 1311,1471,1491,1511,1531,1551,1571,1591,1611 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	≥ 50 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	≥ 0.1 dB
Channel width: CWDM channels	≥ 13 nm (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 ≥ 30 dB CWDM non-adjacent ch's at CWDM drop port ≥ 35 dB	Dimensions	162 x 220 x 25mm (W x D x H)
		Weight	0.9kg
		Compliance	FCC part 15 class A, CE Mark

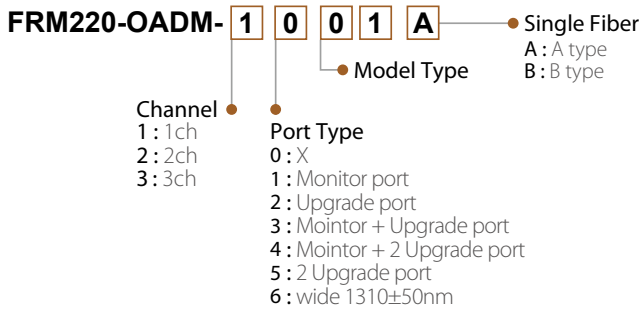
Application



Ordering Information

Model Type	Model Name	Channel Port ITU Center Wavelength(nm)	Chassis Slots Required	Insertion Loss	East	West	Drop	Add
CWDM 1-Channel Add/Drop MUX	FRM220-OADM1001	Add/Drop 1471 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1002	Add/Drop 1491 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1003	Add/Drop 1511 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1004	Add/Drop 1531 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1005	Add/Drop 1551 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1006	Add/Drop 1571 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1007	Add/Drop 1591 with E/W lines	1	<1.1dB			LC/UPC	
	FRM220-OADM1008	Add/Drop 1611 with E/W lines	1	<1.1dB			LC/UPC	

Naming rule



Example :

FRM220-OADM1001 OADM, 1ch, model type 01