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: 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/UPC

### Specifications

#### Number of channels
- CWDM: 1 add/drop channel, 2 add/drop channels

#### 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 / 250μm

#### 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

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Model Name</th>
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<tbody>
<tr>
<td>One Fiber Add Drop Module</td>
<td>FRM220-OADM-W5961-E6159</td>
<td>1ch one fiber CWDM OADM-West T59/R61 East T61/R59</td>
<td>FRM220-OADM-W5557-E5755</td>
<td>1ch one fiber CWDM OADM-West T55/R57 East T57/R55</td>
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<td>FRM220-OADM-W5153-E5351</td>
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<td>FRM220-OADM-W4749-E4947</td>
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<td>FRM220-OADM-W3133-E3331</td>
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<td>FRM220-OADM-W2729-E2927</td>
<td>1ch two fiber CWDM OADM-West T27/R29 East T29/R27</td>
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<td>Two Fiber Add Drop Module</td>
<td>FRM220-OADM-64</td>
<td>1ch two fiber CWDM OADM 1611nm with West/East lines</td>
<td>FRM220-OADM-59</td>
<td>1ch two fiber CWDM OADM 1591nm with West/East lines</td>
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<td>1ch two fiber CWDM OADM 1551nm with West/East lines</td>
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<td>1ch two fiber CWDM OADM 1491nm with West/East lines</td>
<td>FRM220-OADM-47</td>
<td>1ch two fiber CWDM OADM 1471nm with West/East lines</td>
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**Note:** This Card is suitable for use in CH01 standalone chassis