SDH Digital Microwave System
FRX Family

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THE POSSIBILITIES ARE INFINITE

FUJITSU
**FRX Evolution**

**Features**
- Compact Design
- Upgrade up to trunk system
- Full range of frequency bands from 4 to 13 GHz

**Convenient**
- Variable installation
  - Tower / pole mount
  - Desktop
  - Rack
- Portability
- Stock for emergency (off the shelf)

**Capable**
- Network Configuration: STM-1 1+1
- Network Configuration: STM-1 1+0 Ring

With the FLEXR Family, FLEXR-NM, FLEXR-EM and FLEXR-EC, you can have total network control of FRX Family.

**Technical Specifications**

<table>
<thead>
<tr>
<th>Frequency Band (MHz)</th>
<th>U4</th>
<th>L6</th>
<th>L7</th>
<th>L8</th>
<th>13</th>
<th>4</th>
<th>5</th>
<th>U6</th>
<th>11</th>
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<tbody>
<tr>
<td>Modulation Type</td>
<td>128 QAM-MLCM</td>
<td>64 QAM-MLCM</td>
<td></td>
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<tr>
<td>Channel Spacing (MHz)</td>
<td>29</td>
<td>29.65</td>
<td>28</td>
<td>29.65</td>
<td>28</td>
<td>40</td>
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<tr>
<td>Protection System</td>
<td>1+1 / 1+0 (ODU)</td>
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<tr>
<td>RF Output Power*1</td>
<td>32</td>
<td>27</td>
<td>32</td>
<td>29</td>
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<tr>
<td>System Gain (dB)*2</td>
<td>106</td>
<td>105.5</td>
<td>97.5</td>
<td>108.5</td>
<td>104.5</td>
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<tr>
<td>Wayside</td>
<td>2 channels</td>
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</table>

**Interface**
- SDH: 155.52 Mbps Electrical, 155.52 Mbps Optical (Optional)
- SDH Management Network Facilities
  - Local management interface: V24
  - Network management interface: X.25 / LAN
- Primary Input Voltage
  - +36V to -72V (for -48V input)
- Power Consumption
  - +700 Watts (+11, STM-1 Electrical interface)
- Mechanical Dimensions (mm)
  - 300(W) x 350(D) x 500(H) (1+1 Alternated operation system)
- Environmental Conditions
  - Temperature (°C): 0 to 45, Humidity (%): 10 to 95

*1: RF output power of ODU type are as follows: +25 dBm ± 1 dBm for 4 to L8 GHz band
  +22 dBm ± 1 dBm for 11 and 13 GHz band

*2: This is a typical figure, excluding losses in the Branching Network Unit.