**sat-nms LFODU - Fiber Optical Universal Outdoor Cabinet**

The sat-nms LFTX Fiber Optical Transmitter and sat-nms LFRX Fiber Optical Receiver form together a high performance optical link for analog multi-carrier RF transportation on fiber optical media. Both are Eurocard size modules normally sliding into the corresponding 19” 2RU rack-mount chassis and are located indoors either in an equipment shelter or master control room. If you are missing these locations for integration, our sat-nms LFODU Universal Outdoor Cabinet is exactly what you need. Three versions of the sat-nms LFODU Outdoor Cabinet are available:

- **sat-nms LFODU-10**: with 10 optical modules
- **sat-nms LFODU-20**: with 20 optical modules
- **sat-nms LFODU-30**: with 30 optical modules

Always 10 optical modules are combined in a so-called MiniFrame together with a matching MNC-Card and its baseplate, as it is also the case in the 19” chassis. All components are the same as in the rack-mount units and you can select the same options including the N:1 Redundancy.

SatService GmbH is always using high-quality cabinets from Rittal, which always include a temperature control unit to keep temperature above 0 degrees also in winter time. Depending on the size of the cabinet it is also possible to integrate other equipment and functionality. In the photographs you see an example including two other modules, the sat-nms IO-FEP to monitor & control for example the waveguide switches integrated in an antenna and a Cisco Ethernet Switch. Call us for your applications and our flexible design team will propose you a design corresponding to your requirements.

For the technical details please refer to our sat-nms LFTXRX data sheet, which is applicable for the RF and MNC performance.

<table>
<thead>
<tr>
<th>Electrical and Mechanical Specification, Environmental Conditions</th>
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<tbody>
<tr>
<td>Supply Voltage</td>
<td>90 to 230V AC 50 to 60Hz</td>
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<tr>
<td>Connector for the two Mains Voltage AC Inputs</td>
<td>Terminals</td>
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<tr>
<td>Redundant Power Supplies</td>
<td>Din-rail-mounted, easy to change</td>
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<tr>
<td>Temperature Range</td>
<td>-20 to + 50°C</td>
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<tr>
<td>Humidity</td>
<td>Up to 90% non-condensing</td>
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<tr>
<td>Outdoor Cabinet Mechanical Size</td>
<td>sat-nms LFODU-10, -20: 500x500x300 mm (WxHxD)</td>
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<td></td>
<td>sat-nms LFODU-30: 600x760x350 mm (WxHxD)</td>
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<tr>
<th>Key Features</th>
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<tr>
<td>• Temperature-controlled Outdoor Cabinet</td>
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<tr>
<td>• To be installed directly at the Antenna</td>
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<tr>
<td>• 10MHz and L-Band Transfer via one Fiber</td>
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<tr>
<td>• Up to 10, 20 or 30 Optical Links</td>
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<td>• Integrated LNB Power Supply</td>
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<tr>
<td>• Compact Design</td>
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<td>• Flexible Mechanical Size</td>
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<tr>
<td>• Redundant Power Supplies</td>
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<tr>
<td>• Integrated Fan/ Heater</td>
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<td>• Full Remote Control via SNMP or HTTP</td>
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<th>Applications</th>
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<tbody>
<tr>
<td>• Satellite Ground Stations and Teleports</td>
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<td>• Cable head end Stations</td>
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<tr>
<th>Contact Information</th>
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<tbody>
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