Fiber optic Receiver for 4x SAT + 1x Terrestrial

This fiber optic receiver is receiving up to 4 SAT positions (+ terrestrial) via 1 CWDM – Fiber to deploy these RF re-splitted to the original 4 SAT positions + DVB-T/T2/C and a standard Multiswitch in a headend.

Main Features

- New: Integrated Power supply for Plug&Play operation
- Monitoring the embedded power supply by 2 LED’s
- Embedded amplifier and 35 dB isolation
- Isolation between outputs improved with this new version
- Input dividers (fibre-optical to electrical) compensation by embedded amplifier
- Low loss and high performance through the SC/APC fibre optic connector
- Gain-Adjustment: 0...20 dB gain attenuator for each port adjustment for best performance
### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Opt. Connector:</td>
<td>1x SC/APC</td>
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<tr>
<td>Opt. Wavelength:</td>
<td>1270 ... 1430nm (CWDM)</td>
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<tr>
<td>SAT-Freq. Range:</td>
<td>950...2150 MHz</td>
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<tr>
<td>Terr. Range:</td>
<td>47...870 MHz</td>
</tr>
<tr>
<td>SAT Gain:</td>
<td>26dB +/- 1dB</td>
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<tr>
<td>Terr. Gain:</td>
<td>33dB +/- 2dB</td>
</tr>
<tr>
<td>Gain adjustment:</td>
<td>0...-15dB</td>
</tr>
<tr>
<td>SAT/SAT Isolation:</td>
<td>&gt; 35dB</td>
</tr>
<tr>
<td>SAT/Terr Isolation:</td>
<td>&gt; 40dB</td>
</tr>
<tr>
<td>Power Supply:</td>
<td>Internal to 12V/5V 3000mA /18W</td>
</tr>
<tr>
<td>Working temperature range:</td>
<td>-25...+50°C</td>
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<tr>
<td>Dimensions:</td>
<td>24 x 18.5 x 6 cm</td>
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</table>

**Accessory:** Optical splitter available

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**Corresponding product:**

BPF-41, optical Transmitter for 4x SAT + 1x terr. Outputs:
**Application example:**

**System concept Headend System**

Single Fibre-Optic SAT distribution for longer Distances between DISH farm and Headend station. 56 transponder FTA + 4 Transponders with CAM CI Modules; 4 dish + 1 terrestrial antenna supported by 19° Multiswitch

**12 HDMI channels to encode and stream**

5x EMU-BS12

3x NMS

Camera Player

STB to encode

External redundant PoE, servers up to 5 Channels

Streaming IGMP L2+ Switch

1-2RU Omniscreen TV Middleware-Server

To the IPTV STB’s, PoE

Distribution Switch

Optical SFP Trunks

Distribution Switch

To Wireless distribution

Distribution Switch

To Smart-TV’s with embedded IPTV Apps