Fiber optic Transmitter for 4x SAT + 1x Terrestrial

This fiber optic transmitter is for standard quattro LNB usage to deliver up to 4 SAT positions (+ terrestrial) via 1 CWDM – Fiber to a headend which is kilometers away w/o any attenuation or slope loss

Main Features

- 4 Satellites (16x Quad Quattro L/C-band MDU LNB support)
- RF transported over a single fiber optic cable available as 4dBm and 8dBm
- Up to 64 optical signals can be splitted
- Front panel: Gain adjustment for each input
- Voltage LED Indicators
- LNB voltage short circuit protection
- LNB voltage control enabled with on-off switch
- Automatic fan cooling system
- Isolated linear DFB laser CWDM standard wave operating range
- 47-870 MHz (Digital Terrestrial)
- 950-2150 MHz (SAT- IF) working bandwidth
- Built-in high linear AGC amplifier BPF 41-8 transmitter (standard)
- BPF 41-8 transmitter with internal tilt level adjustment (standard)
- Electromagnetic resistance
- High RF resistance against heavy thunderstorms
- Easy installation and application
## Technical Specifications

<table>
<thead>
<tr>
<th>Input</th>
<th>17 F-female connectors (16 IF+1RF) (75 Ohm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>1 SC/APC (Full Band) Optik connector</td>
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<tr>
<td>SAT Frequency Range</td>
<td>950-2150 MHz</td>
</tr>
<tr>
<td>TERR Frequency Range</td>
<td>47-870 MHz</td>
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<tr>
<td>SAT Gain</td>
<td>23dB ± 2</td>
</tr>
<tr>
<td>TERR Gain (DVB-C/DVB-T)</td>
<td>15dB ± 1</td>
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<tr>
<td>Gain Settings</td>
<td>0..15dB (multi trim-potentiometer)</td>
</tr>
<tr>
<td>Optical Output Power</td>
<td>4 mW (6dBm) (or 8mW version for longer distances)</td>
</tr>
<tr>
<td>Optical Wavelength</td>
<td>1270...1570nm (CWDM)</td>
</tr>
<tr>
<td>Max. TERR Signal Input</td>
<td>90 dB ±3</td>
</tr>
<tr>
<td>Max. SAT Signal Input</td>
<td>80 dB ±3</td>
</tr>
<tr>
<td>Power Supply</td>
<td>100-240 VAC 50W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40+85°C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>480x285x90mm</td>
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<tr>
<td>Weight</td>
<td>4300 gr</td>
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</tbody>
</table>

## Accessory: Optical splitter available

![1/64 Optical Splitter](image)

## Corresponding product:

**BFR-41**, optical receiver to 4x SAT + 1x terr. Outputs:

![BFR-41](image)
Application example:

4 SAT-Positions with standard LNB’s

DVB-T/T2

1 Fibre optical distribution with a distance of 4km: BPF 41-2

BPF-41-2/4/8

Transmitter for 16 SAT + 1x Terr.

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Transmitter for 16 SAT + 1x Terr.

BFR-41:
Optical electrical converter

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SAT Matrix 17-16 Web-IF

2x IGS-900 = 32 SAT Transponder to max 1024 IPTV SPTS streams

1x IGS-700T – DVB-S2x for max 4 Transponder and max 4 CI Modules for decryption

1x IGS-700 DVB-T2 for max 4 T2-frequencies & 4 CI Modules for decryption

Streaming IGMP L2+ Switch

NMS