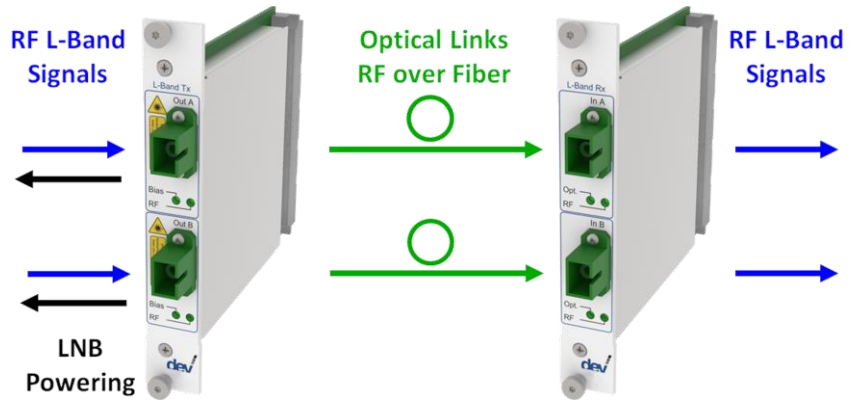


Optribution Basic Twin L-Band Link DEV 7241 & DEV 7341



The final product may vary from the above image depending on the options selected.

Products:

DEV 7241 Basic Twin Optribution Transmitter; 950...2150 MHz; SC/APC

DEV 7341 Basic Twin Optribution Receiver; 950...2150 MHz; SC/APC

Features:

- ▀ Two Transmitters or Receivers per Module
- ▀ Recommended for RF-over-Fiber Links with optical Losses up to 10 dB
- ▀ Fixed Gain
- ▀ RF Sensing with Status LED
- ▀ LNB Power with Current Monitoring and Status LED
- ▀ Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

Link Specifications DEV 7241 & DEV 7341

| | Value | Condition |
|----------------------------|--------------------------|--|
| Frequency Range | 950...2150 MHz | |
| Max. Link Gain | 0±3 dB | |
| Flatness | ±1.5 dB ±0.2 dB | 950...2150 MHz In any 36 MHz window |
| Return Loss | >14 dB, typ. 16 dB | |
| Gain Stability | ±2 dB | 0...+50 °C / 32...122 °F |
| Group Delay Distortion | <2 ns | Notes 2, 3 |
| Nominal RF Input Level | -10 dBm | Aggregated power |
| Noise Figure | <24 dB | |
| SFDR _{2/3} | 107 dB/Hz ^{3/5} | |
| CNR | >59 dB | Notes 1, 2, 3 |
| Output IP3 | >16 dBm | |
| OP1dB | >-1 dBm | |
| Intermodulation Distortion | >40 dBc | @ 2 tones, -13 dBm each |
| Input Power dynamic Range | -45...-6 dBm | Aggregated power |
| Damage RF Input Level | 12 dBm | Aggregated power |
| Optical Budget | 23 dB | @ nominal RF input level |

Note 1: $P_{in} = -15$ dBm

Note 2: 36 MHz window

Note 3: with back to back fiber connection (2 m) and minimum noise figure

Technical Data DEV 7241 & DEV 7341

| | Value | Condition |
|---|--|--------------------|
| Common Optical Specifications | | |
| Fiber Type | Single Mode 9/125 μ m | |
| Optical Connector | SC/APC, E2000/HRL, or FC/APC | Standard is SC/APC |
| Tx Specifications (DEV 7241) | | |
| Laser Type | DFB | |
| Laser Class (according to IEC 60 825-1) | Class 1M (low Risk to Eyes, no Risk to Skin) | |
| Optical Power Output | 1 mW / 0 dBm | |
| Power Consumption | 15 V; 400 mA | Without LNB power |
| Weight | ~0.5 kg | |
| Tx LNB Power & Current Monitoring | | |
| LNB Power | 15 V \pm 1 V; max. 350 mA | |
| Alarm Indication | Via LED on the Front Panel & via Remote Communication | |
| Rx Specifications (DEV 7341) | | |
| Wavelength Range | 1100...1650 nm | |
| Min. optical Input Level (optical Sensitivity) | <-22 dBm | |
| Damage optical Input Level | +10 dBm | |
| Power Consumption | 15 V; 400 mA | |
| Weight | ~0.3 kg | |
| Tx & Rx RF Sensing | | |
| Adjustable Threshold Level (THL) | 0 dBm > THL > -50 dBm | |
| Threshold Repeatability | <0.1 dB | |
| Alarm Indication | Via LED on the Front Panel & via Remote Communication | |
| Tx & Rx General Specification | | |
| Size | 4 HP (20 mm) Width, 3 RU (133 mm) Height, 3.94" (100 mm) Depth | |
| Environmental Conditions | ETS 300019 Part 1-3 Class 3.1E | |

Order Information

| Products | |
|----------|--|
| DEV 7241 | Basic Twin Optribution Transmitter; 950...2150 MHz; SC/APC |
| DEV 7341 | Basic Twin Optribution Receiver; 950...2150 MHz; SC/APC |

| Optical Connector Options | |
|---------------------------|-----------------------------|
| Option 07 | FC/APC Optical Connector |
| Option 08 | E2000/HRL Optical Connector |

Contact

DEV Systemtechnik GmbH
Grüner Weg 4A
61169 Friedberg
GERMANY
Phone: +49 6031 6975 100
Fax: +49 6031 6975 114
info@dev-systemtechnik.com
www.dev-systemtechnik.com

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Technical specifications are subject to change