OPTRIBUTION
powered by DEV

dev

THE ART OF ENGINEERING

Smart Intelligent Optribution Chassis 4 RU

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

Product:

DEV 7134	Smart Intelligent Optribution Chassis; 12 Slots

Features:

- Versatile 4 RU Chassis with small Installation Depth
- All Modules and Components are assembled at the Front Side
- 50 Ohm, SMA (f) or 75 Ohm, F (f)
- 1+1 Redundancy Options
- 1+1 Redundancy Options
- Automatic Switch Back / Main Backup Swap Option for 1+1 Redundancies
- N+1 Redundancy Options
- RGC (Redundancy Path Gain Compensation) for N+1 Redundancy Options
- CWDM for 4, 8, and 9 Channels
- Optical Ethernet Options
- SNMP Support
- DEV Web Interface
- Signal Recording and Data Backup Feature
- Power Supply Redundancy

DEV 7134 Smart Intelligent Optribution Chassis; 12 Slots

	Value	Condition
Capacity		
Front Side	12 Slots (max. 12 Optical Channels with Single Link Modules, max. 16 Optical Channels with Twin Modules)	
Remote Communication		
Interface (Connector)	Ethernet (RJ-45)	
Remote Control & Surveillance	via Web Interface and via SNMP	
Redundant Power Supply		
Supply Voltage	100…240 V AC supplied by two different Lines	
Power Consumption	<250 VA	
General Specifications		
Size	19" (483 mm) Width, 4 RU (178 mm) Height, ~255 mm + max. 80 mm (Optical Connectors) Depth	
Weight	~8 kg	empty Chassis
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Option 28 Automatic Switch Back / Main Backup Swap

Either functionality can be selected via a configuration menu:

Automatic Switch Back:
Automatic Switch Back enables the autonomous switching back from the redundant link to the main link based on the RF Sensing functionality.

Main Backup Swap:
Main Backup Swap enables the dynamic change of main and backup assignment to realize the autonomous switching from the backup link to the main link in addition to the (standard) autonomous switching from the main link to the backup link.

- Available in combination with 1+1 Rx redundancy options, only

Option 54 SFP Ethernet Module

The SFP Ethernet Module is to be applied in one optical slot. The SFP Ethernet Media Converter can be equipped with any SFP module that is appropriate to the application requirements.

Option 55 Change Ethernet to optical Ethernet Interface; 30 km
Option 56 Change Ethernet to optical Ethernet Interface; 1530 nm; 100 km
Option 57 Change Ethernet to optical Ethernet Interface; 1550 nm; 100 km

With Option 55, Option 56, or Option 57 the CPU module of the device provides a 100Base-FX Ethernet interface with SC/PC connectors (instead of the standard 100Base-TX Ethernet interface with RJ-45 connector) for the optical transmission of Ethernet signals.

Cabling Options

Cabling options are used for stand-alone optical Tx or Rx modules.

- Available in 50 Ohm with SMA (f) or in 75 Ohm with F (f) connectors
- Available for DC…3000 MHz, or for 10…1006 MHz, or for DC, 700…2500 MHz

1+1 Redundancy Options

1+1 redundancy options are used to realize a redundant optical link to a dedicated main link.

- Available for DC, 950…2150 MHz, in 50 Ohm with SMA (f) or in 75 Ohm with F (f) connectors
- Up to 4 times with single link modules and up to 8 times with twin modules for Rx redundancies
- Up to 6 times with single link or twin modules for Tx redundancies
- A mix with stand-alone optical Tx or Rx modules is allowed
- A mix with n+1 redundancy options and mix of single link and twin modules is not allowed
- Link gain will be decreased by ~5 dB

	Value	**Condition**
Return Loss	>14 dB	
Slot Requirements (including Tx/Rx Modules)	• 3 Slots for a single 1+1 Redundancy with Single Link Modules • 5 Slots for two 1+1 Redundancies with Single Link Modules • 3 Slots for two 1+1 Redundancies with Twin Modules	

N+1 Redundancy Options

N+1 redundancy options are used to provide a redundant optical link to a number of main links.

- Available for 47…1006 MHz or for DC, 950…2150 MHz in 75 Ohm with F (f) connectors
- Available for DC, 950…2150 MHz in 50 Ohm with SMA (f) connectors
- Up to 2 times with single link or twin modules for a 4+1 redundancy option
- A mix of Tx or Rx redundancies is not allowed
- A mix with stand-alone optical Tx or Rx modules is allowed
- A mix with 1+1 redundancy options is not allowed
- **R**edundancy path **G**ain **C**ompensation) (RGC) to align the gain of the redundant link with the related main link in case of redundancy switching
- Link gain will be decreased by ~2 dB for main links

	Value	**Condition**
Number of Main Channels (n) per Redundancy Option	4	
Return Loss (Signal Path)	>14 dB	
Slot Requirements (including Tx/Rx Modules)	5 Slots	

Order Information

Optribution Chassis	
DEV 7134	Smart Intelligent Optribution Chassis; 12 Slots
Option 28	Automatic Switch Back / Main Backup Swap
Option 54	SFP Ethernet Module
Option 55	Change Ethernet to optical Ethernet Interface; 30 km
Option 56	Change Ethernet to optical Ethernet Interface; 1530 nm; 100 km
Option 57	Change Ethernet to optical Ethernet Interface; 1550 nm; 100 km
Cabling Options	
Option 40	Cabling for 1 Slot; DC…3000 MHz; 50 Ohm, SMA (f)
Option 41	Cabling for 1 Slot; 10…1006 MHz; 75 Ohm, F (f)
Option 42	Cabling for 1 Slot; DC, 700…2500 MHz; 75 Ohm, F (f)
1+1 Redundancy Options	
Option 45/50/Rx	1+1 Rx Redundancy Kit; DC, 950…2150 MHz; 50 Ohm, SMA (f)
Option 45/50/Tx	1+1 Tx Redundancy Kit; DC, 950…2150 MHz; 50 Ohm, SMA (f)
Option 45/75/Rx	1+1 Rx Redundancy Kit; DC, 950…2150 MHz; 75 Ohm, F (f)
Option 45/75/Tx	1+1 Tx Redundancy Kit; DC, 950…2150 MHz; 75 Ohm, F (f)
N+1 Redundancy Options	
Option 46/75/4+1	4+1 Redundancy Kit; 47…1006 MHz; 75 Ohm, F (f)
Option 47/50/4+1	4+1 Redundancy Kit; DC, 950…2150 MHz; 50 Ohm, SMA (f)
Option 47/75/4+1	4+1 Redundancy Kit; DC, 950…2150 MHz; 75 Ohm, F (f)

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

Rev. 26-Oct-2021