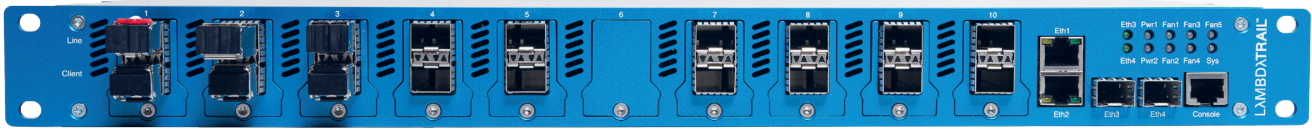


LAMBDA TRAIL™ 3

Compact 10-channel transponder



The Lambdatrail 3 is a compact, modular and flexible multi-channel transponder. The idea of modularity has been consistently the standard 10 module slots can be equipped with different port modules. Each one is individually programmable and, if required, with different speeds, the Lambdatrail 3 meets the most versatile requirements. What's more, by simply changing the port module, future applications can be realized without having to change the chassis.

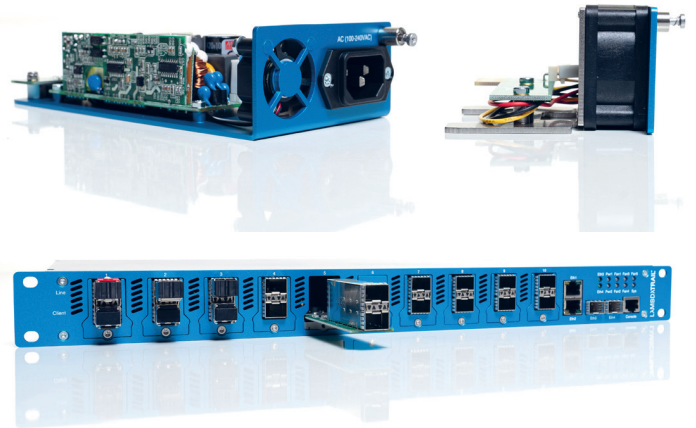
The port modules each have a client / line transceiver slot and are equipped with SFP, SFP+ or SFP28 (port module dependent). Depending on the port module, speeds of up to 32 G are possible.

The Lambdatrail 3 is characterized by uncomplicated installation and configuration as well as the simplest expandability in just a few steps. Port modules, transceivers, fans and power supplies can be replaced or added individually and during operation. System availability increases significantly, while costs for spare parts and maintenance are reduced.

The redundant AC or DC power supply, in any combination, provides additional security for a highly available network.

A variety of management access and alarming options ensure a quick overview of the configuration and "health status" of the Lambdatrail 3. Furthermore, it facilitates the integration into existing management environments. Optionally remote management via OSC can be realized. The combination of Lambdatrail 3 with the passive Lambdaway xWDM multiplexers enables point-to-point, point-to-multipoint, two-fiber and full-duplex single-fiber connections.

The Lambdatrail 3 is manufactured in Switzerland.



System expansion by means of port modules

If required, the Lambdatrail 3 can be flexibly expanded by means of port modules. Two types of these port modules are currently available: LT3-PM-16G and the LT3-PM-32G. The hardware of the LT3 chassis is already designed today in such a way that future port modules with even faster speeds can be used.

Port module matrix

Speed	LT3-PM-16G	LT3-PM-32G
1G Ethernet	✓	✓
10G Ethernet	✓	✓
25G Ethernet		✓
FC 1G	✓	✓
FC 2G	✓	✓
FC 4G	✓	✓
FC 8G	✓	✓
FC 16G	✓	✓
FC 32G		✓

LAMBDA TRAIL™ 3

System expansion using passive multiplexers (Lambdaway)

Additional channels can be scaled with the product range of the Lambdaway family. Operation over only one optical fiber can also be realized without problems with our xWDM multiplexers. Ask us, flexibility is our strength!

Data channels over one duplex fiber	Lambdaway type
10 channels (1 × LT3)	LW-B-211-D
20 channels (2 × LT3)	LW-B-221-D
30 channels (3 × LT3)	LW-B-231-D
40 channels (4 × LT3)	LW-B-241-D

Technical Data

- General:
 - 1 RU, 19" pizza box
 - Redundant Power supplies: 100 to 240 VAC, 50Hz / or -36 to -72 VDC
- Power consumption:
 - Regularly 50 Watt, max. 150 Watt
- Dimensions (H × W × D): 44 × 483 × 370 mm
- Weight 4.30 kg
- Operating ambient temperature 5° to 40°C
- Active, integrated, controlled cooling front to back
- 10 hot-swappable Port Modul Slots, 1 – 32 Gbps
- Specification of Port Modules:
 - › **LT3-PM-16G**: 2 × SFP/SFP+ slots (Client/Line), 1 Gbps – 16 Gbps
Protocol per port module: transparent or pluggable-specific
 - › **LT3-PM-32G**: 2 × SFP/SFP+/SFP28 slots (Client/Line), 1 Gbps – 32 Gbps
Protocol per port module: transparent or pluggable-specific
- Link-Loss-Carry-Forward: Disable Client Transceiver upon loss of
- Signal (LOS) of Line Transceiver (configurable APSD)
- Protocols supported:
 - Ethernet: 1 Gbps, 10 Gbps, 25 Gbps
 - Storage 1/2/4/8/16/32 G Fibre channel
- Network Management:
 - Management Ports: 2 × RJ45 10/100/1000Base-T, 2 × 1G SFP Slot, serial Console Port
 - Protocols: SNMP, FTP, SFTP, HTTPs, SMTP, Telnet, SSH, TACACS+, RADIUS
 - Management: Web Server application (GUI)
 - Alarm notification: Event Log, Email, SNMP trap, Syslog
 - Status / Alarming: TX Power, RX Power, Laser bias, Laser temp, Link up/down,
 - System reset, Power failure, Fan failure
 - Remote management via OSC optional (Optical Service Channel)
- Optical indicators: LED status indicators for Client ports, Line ports,
 - power supplies, Fan, system management
- Standards: CE certified

Performance features

- Transparent transmission (Ethernet, Fibre Channel, etc.)
- Up to 32 Gbps per channel
- Easy commissioning, maintenance and troubleshooting
- Easy to service
- SFP/SFP+/SFP28 based
- Easy expansion as needed up to 10 channels per chassis (hot swappable)
- Compact design 1 RU 19"
- Redundant AC or DC power supply (hot swappable)
- Monitoring via SNMP
- Remote management
- Hardware ready for even faster speed
- Built in Switzerland
- 3 years warranty

February 2022