

# Product Information

## OTDR-RTU

### all-in-one monitoring solution for fiber optic networks

The LANCIER Monitoring OTDR-RTU is a compact all-in-one monitoring solution for fiber optic networks.

It features a high-end OTDR (optical time domain reflectometer), an optical switch for 16 or 64 ports and all necessary electronic components in a single neat unit, that can be installed in a 19" rack and only uses a single height unit.

The wavelength of 1650 nm is ideal for continuous monitoring of fiber optic cables (dark fiber or life fiber) as well as for fiber optic sensors such as the LANCIER Monitoring CoverSensor for structural health monitoring (buildings, manholes etc.) or the AquaSensor for humidity intrusion detection.

With 41 dB dynamic range the OTDR-RTU can monitor up to 160 km (uni-directional) or 320 km (bidirectional).

All data is transmitted via IP network to the LANCIER Monitoring UMS system for data storage, visualization and alarming.



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## Technical Data

Port numbers	16 or 64 ports
Laser Class	Class 1
Dynamic range	41 dB
Wavelength	1650 nm
Pulse width	5 ns - 20,000 ns
Data points	Up to 256,000
Resolution	0.1 to 16 meters
Event dead zone	0.8 meters
Attenuation dead zone	4 meters
Distance accuracy	$\pm (0.8 + \text{resolution} + 9.5 \times 10^{-6} \times \text{distance})$ meters
Optical Switch lifetime	$1 \times 10^9$ cycles
Port scanning time	2-5 seconds
Operating temperature	-5 to 55 °C
Storage temperature	-43 to 85 °C
Max. relative humidity (non-condensing)	85 %
Power consumption	max. 13 W
Power supply	230 VAC or (-72 to -38) VDC

## Ordering Data

### OTDR-RTU

**xyy = 102:** 16 port, AC  
**202:** 16 port, DC  
**601:** 64 port, AC  
**701:** 64 port, DC

Order-no. 076724.xyy