

R&S® LANCOM SFP-GPON-2

GPON SFP module for connection to passive fiber optic lines (FTTH)



Fiber-optic lines directly into the home (fiber-to-the-home / FTTH) offer higher speeds, more stable connections, and greater future-proofing compared to DSL lines. The R&S® LANCOM SFP-GPON-2 enables you to connect directly to a GPON network (Gigabit Passive Optical Network) with up to 1 Gbps via your R&S® LANCOM gateway – without the complex cabling and power supply of a separate provider modem.

- ▶ GPON G.984.2 ONT
- ▶ Simplex SC/APC Transceiver
- ▶ Direct connection to GPON FTTH networks (1G) without separate provider modem
- ▶ Transmission bandwidth and interference-free technology
- ▶ Operating temperature -10°C to 85°C
- ▶ Easy integration into R&S® LANCOM devices of the 1800 and 1900 series, 2100EF, ISG-5000, ISG-8000, WLC-60, and WLC-2000
- ▶ Including 3 m LC/APC to SC/APC cable

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Reliable support for GPON technology

For fiber to the home (FTTH) data transmission, GPON technology is a reliable solution: A GPON-based network architecture is characterized by flexible bandwidths up to 1 G as well as high transmission ranges. The components of the gigabit speed optical network reduce its maintenance and costs, making it reliable and scalable. An upgrade to GPON technology is, thus, easy to realize with the R&S® LANCOM SFP-GPON-2.

Direct connection to GPON FTTH networks without separate provider modem

For fiber to the home (FTTH) data transmission, GPON technology is a future-proof solution: A GPON-based network architecture is characterized by flexible bandwidths as well as high transmission ranges. The components of the gigabit speed optical network reduce its maintenance and costs, making it reliable and scalable. An upgrade to GPON technology is, thus, easy to realize with the R&S® LANCOM SFP-GPON-2.

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Technical details	
SFP module	GPON ONT SC/APC Transceiver Class B+
Conformity	► Compliant to G.984.1, G.984.2, G.984.3 and G.984.4/G.988 ► OMCI support per ITU-T G.988
Cable type	Single mode fiber 9/125µm
TX Wavelength	typ. 1310nm
RX Wavelength	typ. 1490nm
Transmit power	min. 0.5 dBm, max. 5 dBm
Receiver Sensitivity	min. -27 dBm
Receiver Overload	max. -8 dBm
Asymmetric data rate	► 1.244 Mbps Tx ► 2.488 Mbps Rx
Power consumption	max. 2 W
Operating temperature	-10°C - 85°C
Connection type	SC/APC
Monitoring	SFF-8472 diagnostic monitoring interface for optical transceivers
GPON password	GPON password (PLOAM) can only be configured via LCOS
Compatibility	
Provider	Validated compatibility for the use on FTTH-lines of Deutsche Telekom
Compatible devices	► R&S® LANCOM R903 ► R&S® LANCOM 1800 series ► R&S® LANCOM 1900 series ► R&S® LANCOM 2100EF ► R&S® LANCOM ISG-5000 ► R&S® LANCOM ISG-8000 ► R&S® LANCOM WLC-60 ► R&S® LANCOM WLC-2000
Minimum software version*	► LCOS 10.80 RU10 ► LCOS 10.92 RU7 ► LCOS 10.94 RU4
*) Note	For regular operation the mentioned minimum version is required.
Delivery content	
Delivery content	► SFP module ► 3m LC/APC to SC/APC cable (to connect to the Deutsche Telekom fibre telecommunication outlet (Gf-TA))
Item	
Warranty extension	2 years
Item number	60212

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