

R&S® LANCOM SFP-XGSPON-1

SFP expansion module for direct connection to XGS-PON networks (FTTH)



Designed specifically for 10 Gigabit-capable passive optical networks (XGS-PON) directly into the home (fiber to the home / FTTH), the SFP transceiver module R&S® LANCOM SFP-XGSPON-1 offers up to 10 Gbps both downstream and upstream. By simply plugging it into your R&S® LANCOM gateway, you can establish a direct fiber-optic connection to an XGS-PON network. This eliminates the time-consuming installation of a separate provider modem.

- ▶ Standard: XGS-PON G.9807.1 ONT
- ▶ Simplex SC/APC Transceiver
- ▶ Transmission bandwidth of up to 10 Gbps and interference-free technology when used in 10G SFP+ ports
- ▶ Direct connection to XGS-PON networks (10G) without a separate provider modem
- ▶ For providers who rely entirely on XGS-PON technology for all connections, operation is also possible in devices with an SFP port (1G mode)
- ▶ Operating temperature -40°C to 85°C
- ▶ Easy integration into R&S® LANCOM devices of the 1800 blackline series, 1900 series, 2100EF, ISG series, and WLC-2000
- ▶ Including 3m LC/APC to SC/APC cable

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Future-proof use of XGS-PON technology

For data transmission via fiber to the home (FTTH), XGS-PON technology represents the further development of the GPON standard. XGS-PON offers symmetrical speeds of up to 10 Gbps both downstream and upstream, which far exceeds the capacity of conventional GPON networks. The XGS-PON module R&S® LANCOM SFP-XGSPON-1 is backward compatible with R&S® LANCOM gateways with 1G SFP interfaces and still offers up to 1 Gbps. This allows network operators to gradually modernize their infrastructure without interrupting existing services. A seamless upgrade with existing R&S® LANCOM devices to XGS-PON technology is therefore possible with the R&S® LANCOM SFP-XGSPON-1.

Direct connection to XGS-PON FTTH networks without separate provider modem

The SFP transceiver module R&S® LANCOM SFP-XGSPON-1 handles the necessary conversion of the incoming data signals. This eliminates the need for an additional fiber-optic modem between the fiber-optic connection in the building and the gateway. This eliminates the need for cabling and installation of the modem as well as the installation of an additional power supply.

Easy integration of the R&S® LANCOM SFP-XGSPON-1

The R&S® LANCOM SFP-XGSPON-1 module is easily connected via the 1G SFP or 10G SFP+ ports of the R&S® LANCOM 1800 blackline, 1900, and ISG series as well as the R&S® LANCOM 2100EF and R&S® LANCOM WLC-2000.

Note: To use the R&S® LANCOM SFP-XGSPON-1, at least LCOS version LCOS 10.80 RU9 is required on the device side. Connecting the module to 1G SFP ports limits the maximum data transmission to 1 Gbps accordingly.

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Technical details	
SFP module	XGS-PON ONT SC/APC Transceiver Class N1
Host interface	Operation in devices with SFP port (1G mode) and SFP+ port (10G mode) possible.
Conformity	► Compliant to ITU-T G.9807.1 XGS-PON standard ► OMCI support per ITU-T G.988
Cable type	Single mode fiber 9/125µm
TX Wavelength	typ. 1270 nm
RX Wavelength	min. 1575 nm, max. 1580 nm
Transmit power	min. 4 dBm, max. 9 dBm
Receiver Sensitivity	min. -28.5 dBm
Receiver Overload	max. -8 dBm
Data rate	► 9.953 Mbps Tx ► 9.953 Mbps Rx
Power consumption	typ. <2.1 W
Operating temperature	-40°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
Provider	Certified for the use with Swisscom (CH) fiber lines
Compatible devices (1G mode)	► R&S® LANCOM R903 ► R&S® LANCOM 1800 blackline series ► R&S® LANCOM 1900 series
Compatible devices (10G mode)	► R&S® LANCOM 2100EF ► R&S® LANCOM ISG-5000 ► R&S® LANCOM ISG-8000 ► R&S® LANCOM WLC-2000
Minimum software version*	► LCOS 10.80 RU9
*) 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	60207

Rohde & Schwarz Networks and Cybersecurity GmbH
 Adenauerstr. 20/B2
 52146 Wuerselen | Germany
info.rs-nc@rohde-schwarz.com | www.rohde-schwarz.com/networks-and-cybersecurity

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