R&S®LANCOM TRANSCEIVER MODULES

Flexible connections for your switches, routers and firewalls!

R&S®LANCOM switches, routers and firewalls with integrated SFP ports are characterized by maximum versatility in use. Be it for high-speed fiber-optic networking or as a copper-cabled Ethernet port: R&S®LANCOM transceiver modules provide the specialized connections you need for your R&S®LANCOM device. And thanks to the tried-and-tested compatibility with R&S®LANCOM products, R&S®LANCOM transceiver modules offer the best connections and highest reliability.

- R&S®LANCOM SFP-SX-LC1
- R&S®LANCOM SFP-SX2-LC1
- R&S®LANCOM SFP-LX-LC1
- R&S®LANCOM SFP-SX-LC10
- R&S®LANCOM SFP-LX-LC10
- R&S®LANCOM SFP-LR40-LC10
- R&S®LANCOM SFP-SR-LC25
- R&S®LANCOM SFP-LR-LC25
- R&S®LANCOM SFP-SR-MPO40
- R&S®LANCOM SFP-LR-LC40
- R&S®LANCOM SFP-CO1
- R&S®LANCOM SFP-CO10-MG
- R&S®LANCOM SFP-GPON-2
- R&S®LANCOM SFP-XGSPON-1
- R&S®LANCOM SFP-AON-1
- R&S®LANCOM SFP-AON-10
- R&S®LANCOM SFP-BiDi1550-SC1
- R&S®LANCOM SFP-BiDi1310-LC10
- R&S®LANCOM SFP-SR-MPO100
- R&S®LANCOM SFP-LR-LC100
- R&S®LANCOM UF-SFP-SX-LC1-LC10

Please note that if the distance is too short or attenuation is too low, the receiver diode of a long-range (LR) transceiver module may be destroyed. Therefore, at least one 3 dB attenuator should be planned for each RX and TX fiber. These can be purchased from specialist retailers.
All transceiver modules are Class 1 Laser products in accordance with FDA/CDRH and IEC-60825 standards. These devices are designed to be eye safety compliant under the specified operating conditions. It is essential to ensure that they are always operated within these conditions to maintain their safety and compliance.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SX-LC1

1 Gbps fiber-optic networking of components over distances of up to 550 m

- 1000BASE-SX standard (SFP)
- Up to 1 Gbps link speed
- Full-duplex mode
- Supports 50/125 µm (550 m cable length) and 62.5/125 µm (300 m cable length) multi mode fiber
- Wavelength 850nm
- Output power typ. / max. -6 / -3 dBm
- Receiver sensitivity min. -17 dBm
- Receiver overdrive max. -3 dBm
- Operating temperature 0–70 °C
- LC connector
- Support for digital diagnostic monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SX2-LC1

1 Gbps fiber-optic networking of components over distances of up to 2 km

- 1000BASE-SX-standard (SFP)
- Up to 1 Gbps link speed
- Full-duplex mode
- Supports 50/125 µm (2 km cable length) multi mode fiber
- Wavelength 1310 nm
- Output power typ. / max. -6 / -3 dBm
- Receiver sensitivity min. -21 dBm
- Receiver overdrive max. -3 dBm
- Operating temperature 0–70 °C
- LC connector
- Support for digital diagnostic monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LX-LC1

1 Gbps fiber-optic networking of components over distances of up to 10 km

- 1000BASE-LX standard (SFP)
- Up to 1 Gbps link speed
- Full duplex mode
- Supports 9/125 µm (10 km cable length) single mode fiber
- Wavelength 1310nm
- Output power typ. / max. -6 / -3 dBm
- Receiver sensitivity min. -24 dBm
- Receiver overdrive max. -3 dBm
- LC connector
- Operating temperature 0–70 °C
- Support for digital diagnostic monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SX-LC10

10 Gbps fiber-optic networking of components over distances of up to 300 m

- 10GBASE-SR/SW standard (SFP+)
- Up to 10 Gbps link speed
- Full-duplex mode
- Supports 50/125 µm (300 m cable length) multi mode fiber
- Wavelength 850nm
- Output power typ. / max. -4 / -1 dBm
- Receiver sensitivity min. -11 dBm
- Receiver overdrive max. -1 dBm
- LC connector
- Operating temperature 0–70 °C
- Support of digital diagnostic monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LX-LC10

10 Gbps fiber-optic networking of components over distances of up to 10 km

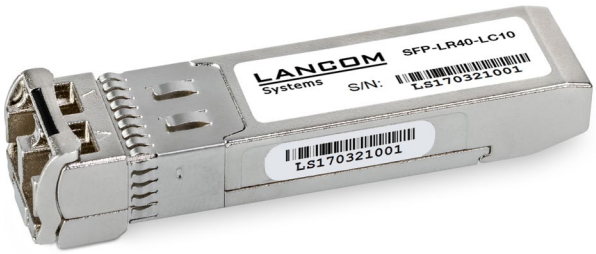
- 10GBASE-LR/LW standard (SFP+)
- Up to 10 Gbps link speed
- Full duplex mode
- Supports 9/125 µm (10 km cable length) single mode fiber
- Wavelength 1310nm
- Output power typ. / max. -3 / 0 dBm
- Receiver sensitivity min. -14 dBm
- Receiver overdrive max. -1 dBm
- Low power dissipation (1.05 W typ.)
- Operating temperature 0–70 °C
- LC connector
- Support for digital diagnostic monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LR40-LC10

10GBase ER 40 km SFP transceiver for SFP+ ports on R&S®LANCOM products



- 10GBase ER standard (SFP+)
- Up to 10 Gbps link speed
- Full duplex mode
- Support 9/125 µm (40 km cable length) single mode fiber
- Wavelength 1550 nm, EML transmitter
- Output power typ. / max. -1 / 3 dBm
- Receiver sensitivity min. -15 dBm
- Receiver overdrive max. -1 dBm
- Power consumption typ. 1,50 W
- LC connector
- Support for Digital Diagnostic Monitoring (DDM)*

* This function is only available for transceiver modules of the latest generation (optically identificable by the R&S®LANCOM logo) and not in connection with R&S®LANCOM Unified Firewalls.

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SR-LC25

25 Gbps fiber-optic networking of components over distances of up to 100 m

- 25GBASE-SR/SW SFP transceiver (SFP28)
- Up to 25 Gbps Gigabit link speed
- Connection to SFP28 ports
- Multi mode fiber (MMF)
- Wavelength 850 nm
- Output power typ. / max. -4 / 2 dBm
- Receiver sensitivity min. -10 dBm
- Receiver overdrive max. 3 dBm
- Supports 50 µm and 125 µm multi mode fiber (max. distance 100 m)
- LC connector
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LR-LC25

25 Gbps fiber-optic networking of components over distances of up to 10 km

- 25GBASE-LR/LW SFP transceiver (SFP28)
- Up to 25 Gbps Gigabit link speed
- Single mode fiber (SMF)
- Connection to SFP28 ports
- Supports 9 µm single mode fiber (max. distance 10 km)
- Wavelength 1310 nm
- Output power typ. / max. -2 / 3 dBm
- Receiver sensitivity min. -12 dBm
- Receiver overdrive max. 3 dBm
- LC connector
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SR-MPO40

40 Gbps fiber-optic networking of components over distances of up to 300 m

- 40GBASE-SR/SW SFP transceiver (QSFP+)
- Up to 40 Gbps Gigabit link speed
- Multi mode fiber (MMF)
- Supports 50/125 µm multi mode fiber (max. distance 300 m)
- Wavelength 850 nm
- Output power typ. / max. -4 / 3 dBm
- Receiver sensitivity min. -10 dBm
- Receiver overdrive max. 3 dBm
- The transceiver is equipped with an MPO Male connector
- To connect two transceivers a female-female pigtail with polarity B is required (not included)
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LR-LC40

40 Gbps fiber-optic networking of components over distances of up to 10 km

- 40GBASE-LR/LW-SFP transceiver (QSFP+)
- Up to 40 Gbps Gigabit link speed
- Single mode fiber (SMF)
- Connection to QSFP+ ports
- Supports 9 µm single mode fiber (max. distance 10 km)
- Wavelength 1310 nm
- Output power typ. / max. -4 / 2 dBm
- Receiver sensitivity min. -11 dBm
- Receiver overdrive max. 3 dBm
- LC connector
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-CO1

1 Gbps copper transceiver for operating an SFP port on copper lines

- RJ45 Ethernet transceiver 1000BASE-T
- Up to 1 Gbps link speed
- Full-duplex mode
- Operating temperature 0–70 °C

R&S®LANCOM SFP-CO10-MG

10 Gbps copper transceiver for operating an SFP port on copper lines

- Multi-Gigabit Ethernet copper SFP transceiver
- Up to 10 Gbps Gigabit link speed
- Cable length up to 30m when using CAT6A cables (shorter link lengths can be expected when using lower category cables)
- Multi-Gigabit Ethernet capable
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-GPON-2

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

- GPON G.984.2 ONT
- Simplex SC/APC transceiver
- Class B+, 28dB link budget
- Supports 9/125 µm single mode fiber
- TX wavelength typ. 1310 nm
- RX wavelength typ. 1490 nm
- Operating temperature -10–85 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Including 3 m LC/APC to SC/APC connection cable

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-XGSPON-1

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

- XGS-PON G.9807.1 ONT
- Simplex SC/APC transceiver
- Class B+, 28dB link budget
- Supports 9/125 µm single mode fiber
- TX wavelength typ. 1310 nm
- RX wavelength min. / max. 1480 nm / 1500 nm
- Operating temperature -40–85 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Including 3 m LC/APC to SC/APC connection cable

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-AON-1

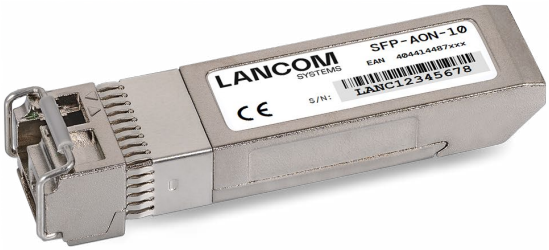
AON SFP transceiver for connection to active fiber optic lines (FTTH)

- 1000BASE-BX20-U SFP
- Simplex SC/UPC transceiver
- Up to 1 Gbps link speed
- Full duplex operation
- Supports 9/125 µm (20 km cable length) single mode fiber
- TX wavelength typ. 1310 nm
- RX wavelength min. / max. 1480 nm / 1580 nm
- Output power typ. / max. -9 / -3 dBm
- Receiver sensitivity min. -24 dBm
- Receiver overdrive max. -3 dBm
- Operating temperature -40–85 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Including 3 m LC/APC to SC/UPC connection cable

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-AON-10

SFP transceiver for direct connection with up to 10G to Active Ethernet fiber optic networks



- 10GBASE-BX20-U SFP
- Simplex LC/UPC Transceiver
- Up to 10 Gbps link speed
- Full duplex operation
- Supports 9/125 µm (20 km cable length) single mode fiber
- TX wavelength typ. 1270 nm
- RX wavelength min. / max. 1320 nm / 1340 nm
- Output power typ. / max. -2 / +3 dBm
- Receiver sensitivity min. -14 dBm
- Receiver overdrive max. 0.5 dBm
- Operating temperature 0 – 70 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Including 3 m LC/APC to LC/UPC connection cable

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-BiDi1550-SC1

1G bidirectional SFP transceiver pair for fiber-optic networking of R&S®LANCOM products

- Transmitting and receiving via only one optical fiber with two separate wavelengths (1310 nm / 1550 nm)
- SC/UPC connector
- Up to 1 Gbps link speed
- Full duplex operation
- Supports 9/125 µm (20 km cable length) single mode fiber
- TX wavelength 1310 nm or 1550 nm (A or B type)
- RX wavelength 1310 nm or 1550 nm (A or B type)
- Output power max. -3 dBm
- Receiver sensitivity min. -24 dBm
- Receiver overload max. -3 dBm
- Operating temperature -20–85 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Swappable during system operation (hot-pluggable)

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-BiDi1310-LC10

10G bidirectional SFP+ transceiver pair for fiber-optic networking between R&S®LANCOM switches

- Transmitting and receiving via only one optical fiber with two separate wavelengths (1270 nm / 1330 nm)
- LC/UPC connector
- Up to 10 Gbps link speed
- Full duplex operation
- Supports 9/125 µm (20 km cable length) single mode fiber
- TX wavelength 1270 nm or 1330 nm (A or B type)
- RX wavelength 1270 nm or 1330 nm (A or B type)
- Output power max. 0 dBm
- Receiver sensitivity min. -14 dBm
- Receiver overload max. 0 dBm
- Operating temperature -20–85 °C
- Support for Digital Diagnostic Monitoring (DDM)
- Swappable during system operation (hot-pluggable)

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-SR-MPO100

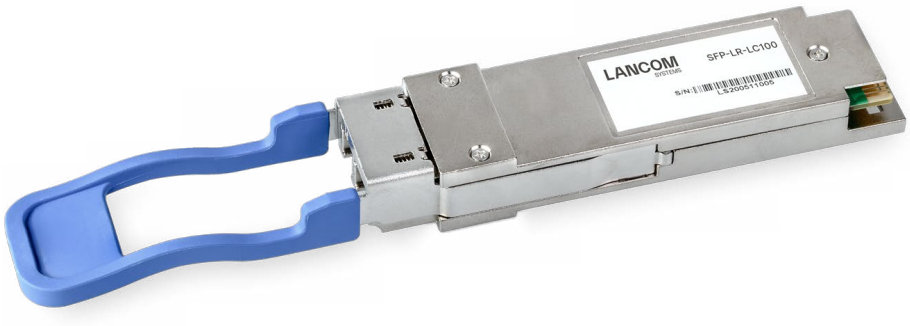
100GBASE-SR4 QSFP transceiver for connecting QSFP28 ports on R&S®LANCOM switches

- 100GBASE-SR4 QSFP transceiver (QSFP28)
- Up to 100 Gbps link speed
- Supports 50/125 µm multi mode fiber (max. distance: OM3: 70 m, OM4: 100 m)
- Wavelength 850 nm (4 channels)
- Output power per lane max. 2.4 dBm
- receiver sensitivity per lane min. -10.3 dBm
- Receiver overload per lane max. 2.4 dBm
- Operating temperature 0–70 °C
- MPO port (MPO 12-connector)
- Connection to QSFP28 ports
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM SFP-LR-LC100

100GBASE-LR4 QSFP transceiver for connecting QSFP28 ports on R&S®LANCOM switches



- 100GBASE-LR4 QSFP transceiver (QSFP28)
- Up to 100 Gbps link speed
- Supports 9/125 µm single mode fiber (max. distance 10 km)
- Wavelength 1310 nm (4 channels)
- Output power per wavelength (channel) max. 4.5 dBm
- Receiver sensitivity per wavelength (channel) min. -8.6 dBm
- Receiver overload per wavelength (channel) max. 4.5 dBm
- Operating temperature 0–70 °C
- LC-PC/UPC connector
- Connection to QSFP28 ports
- Swappable during system operation

R&S®LANCOM TRANSCEIVER MODULES

R&S®LANCOM UF-SFP-SX-LC1-LC10

1 Gbps or 10 Gbps fiber-optic networking of components over distances of up to 300 m

- 10GBASE-SR/SW standard 10G and 1000BASE-SX standard 1G (SFP+)
- Up to 10 Gbps link speed
- Full-duplex mode
- Maximum link length of 400m on OM4 (4700 MHz-km) MMF and 300m on OM3 (2000 MHz-km) MMF
- Wavelength 850 nm
- Operating temperature 0–70 °C
- Duplex LC connector
- Support for digital diagnostic monitoring (DDM)
- Also available in bulk packs of 10

R&S®LANCOM TRANSCEIVER MODULES

	R&S®LANCOM SFP-SX-LC1	R&S®LANCOM SFP-SX2-LC1	R&S®LANCOM SFP-LX-LC1	R&S®LANCOM SFP-SX-LC10	R&S®LANCOM SFP-LX-LC10	R&S®LANCOM SFP-LR40-LC10
Item number	61556 60184 (Bulk 10)	60183	61557 60185 (Bulk 10)	61485 60187 (Bulk 10)	61497 60188 (Bulk 10)	60182 60198 (Bulk 10)
Warranty	2 years	2 years	2 years	2 years	2 years	2 years

	R&S®LANCOM SFP-SR-LC25	R&S®LANCOM SFP-LR-LC25	R&S®LANCOM SFP-SR-MPO40	R&S®LANCOM SFP-LR-LC40	R&S®LANCOM SFP-CO1	R&S®LANCOM SFP-CO10-MG
Item number	60171 60190 (Bulk 10)	60172 60191 (Bulk 10)	60173 60193 (Bulk 10)	60174	61494 60186 (Bulk 10)	60170 60189 (Bulk 10)
Warranty	2 years	2 years	2 years	2 years	2 years	2 years

	R&S®LANCOM SFP-GPON-2	R&S®LANCOM SFP-XSGPON-1	R&S®LANCOM SFP-AON-1	R&S®LANCOM SFP-AON-10	R&S®LANCOM SFP-BiDi1550-SC1	R&S®LANCOM SFP-BiDi1310-LC10
Item number	60212	60207	60200	60211	60201	60202
Warranty	2 years	2 years	2 years	2 years	2 years	2 years

	R&S®LANCOM SFP-SR-MPO100	R&S®LANCOM SFP-LR-LC100	R&S®LANCOM UF-SFP-SX-LC1-LC10	
Item number	60206 60208 (Bulk 10)	60205	55221 55222 (Bulk 10)	
Warranty	2 years	2 years	2 years	

R&S®LANCOM devices and other R&S®LANCOM accessories compatible to the R&S®LANCOM transceiver modules can be found here.

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