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OSP-SM10S Quick Start Guide

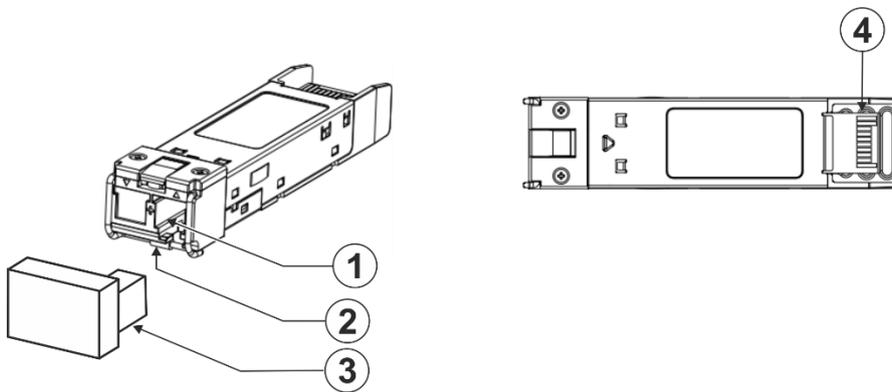
This guide helps you install and use your OSP-SM10S for the first time.

Go to www.kramerav.com/downloads/OSP-SM10S to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ✓ 2 OSP-SM10S 10G SFP+ Simplex Transceivers (A and B)
- ✓ 1 Quick start guide

Step 2: Get to know your OSP-SM10S



#	Feature	Function
1	LC Connectors	For connecting fiber optic cable. Covered with protective cap when not in use.
2	Bail (Handle)	Pull down the handle for easy removal of the transceiver from the optical device.
3	Protective Cap	Protects the LC connector from dust. Note: When transporting or storing an unconnected device, keep the cap on to protect against dust.
4	SFP+ Module Interface	Connects to the optical module SFP+ port.

Step 3: Safety Instructions

⚠ Warning: Class 1 Laser Product:

- Invisible laser radiation present.
- Avoid long-term viewing of laser.
- Avoid the use of magnifying viewing aids or instruments (such as binoculars, telescopes, microscopes and magnifying lenses, but not spectacles or contact lenses).
- Avoid placing optical devices in the emitted beam that could cause the concentration of the laser radiation to be increased.



- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.

Step 4: Operation and Installation Warnings

- OSP-SM10S is designed to be used with LC(PC) and LC(UPC) cable connectors. Using an LC(APC) connector causes poor performance and can damage the optical module connector.
- Always inspect and clean the connectors before you make a connection.
- Always use the connector housing to plug or unplug a fiber cable.

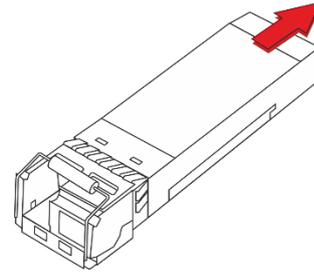
- Never touch the end face of the fiber connectors.

Step 5: Install the OSP-SM10S

Always install transceiver A to one extension device and transceiver B to the other extension pairing device.

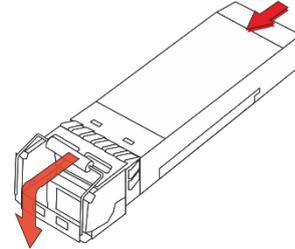
To install the 10G SFP+ Simplex Transceiver:

1. Make sure the bail is pushed up, in the closed position.
2. Insert the OSP SFP+ transceiver into the relevant optical device SFP+ slot and push it in until it clicks.
3. Before connecting the optical fiber cable, remove the protective cap and store it in a safe place for future use.



To remove the 10G SFP+ Simplex Transceiver:

1. Pull the bail down to release the transceiver unit.
2. Pull the transceiver unit out by the bail from the optical device SFP+ slot.
3. If needed, put the protective cap back on.



For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/OSP-SM10S. Using third-party cables may cause damage!

Step 6: Technical Specifications

Transceiver Wavelength:	A: 1270 DFB transmitter /1330nm receiver B: 1330 DFB transmitter /1270nm receiver
Optical Fiber Line Type:	Single-mode
Optical Transmitter Type:	DFB
Typical Optical Transmission Power:	-5dBm
Typical Optical Maximum Receiver Sensitivity:	-14dBm
Typical Optical Maximum Loss Budget:	9dB
Ports:	1 strand fiber optic LC (PC/UPC) connector for reception and transmission SFP+ compliant pluggable interface Note: Do not use with LC(APC) connectors.
Data Rate:	10Gbps
Maximum Reach	24km
Standards Compliance:	IEEE 802.3AE, SFF-8431, SFF-8472
Laser Safety Compliance:	Laser Class I
Regulatory Certifications:	FDA: CDRH 1040.10 TUV: EN60950-1:2006+A11+A1+A12+A2; EN60825-1:2014; EN60825-2:2004+A1+A2 UL: 60950-1; CSA C22.2 No. 60950-1-07:2014 EMC CE: EN 55032:2010; EN 55024:2010 CB: IEC 60950-1 2nd Edition :2014 RoHS: Directive 2011/65/EU
Operating Temperature:	0° to 70°C
Storage Temperature:	-40° to 85°C
Humidity:	5% to 95% RH
Power Consumption:	1W
Product Dimensions:	1.33cm x 5.7cm x 0.85cm (0.52" x 2.2" x 0.33") W, D, H
Product Weight:	0.018kg (0.04lbs)
Shipping Dimensions:	4.1cm x 12.6cm x 8.4cm (1.6" x 5" x 3.3") W, D, H
Shipping Weight:	0.06kg (0.13lbs)
Specifications are subject to change without notice at www.kramerav.com	