# KRAMER





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### OSP-MM1, OSP-SM10 Quick Start Guide

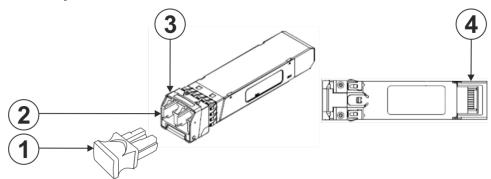
This guide helps you install and use your OSP-MM1, OSP-SM10 for the first time.

Go to <u>www.kramerav.com/downloads/OSP-MM1</u> to download the latest user manual and check if firmware upgrades are available.

#### Step 1: Check what's in the box

OSP-MM1 Optical 1km MM 10G SFP+ Transceiver or OSP-SM10 Optical 30km SM 10G SFP+ Transceiver 1 Quick start guide

#### Step 2: Get to know your OSP-MM1, OSP-SM10



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

#### **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.

#### **Operation and Installation Warnings**

- OSP-MM1, OSP-SM10 are designed to be used with LC(PC) and LC(UPC) connectors. Using an LC(APC) connector
  causes poor performance and can damage the connector.
- Always inspect and clean the connectors before you make a connection.
- Always use the connector housing to plug or unplug a fiber.
- Never touch the end face of the fiber connectors.

OSP-MM1, OSP-SM10 Quick Start (P/N: 2900-300733QS REV 3)

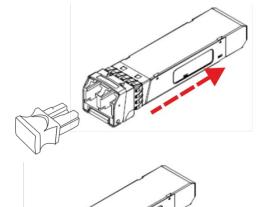
## Step 3: Install the OSP-MM1, OSP-SM10

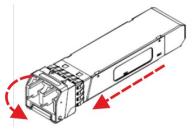
To install the OSP SFP+ transceiver:

- 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. Remove the protective cap and store it in a safe place for future use.

To remove the OSP SFP+ 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.





## **Technical Specifications**

	OSP-MM1	OSP-SM10	
Transceiver Wavelength:	850nm	1310nm	
Optical Fiber Line Type:	Multi-mode	Single-mode	
Optical Transmitter Type:	VCSEL	DFB	
Typical Optical Transmission Power:	-2.5dBm	-2.5dBm	
Typical Optical Maximum Receiver Sensitivity:	-11.1dBm	-14.4dBm	
Typical Optical Maximum Loss Budget:	8.6dB	11.9dB	
Ports:	2 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		
Standards Compliance:	IEEE 802.3ae, SFF-8431		
Laser Safety Compliance:	Laser Class I		
Regulatory Certifications:	FDA CDRH 21 CFR 1040 and Laser Notice No. 50 UL and CUL EN60950-2:2007 RoHS6 Directive 2002/95/EC EMC EN 55022:2006+A1:2007; EN 55024:1998+A1+A2:2003 0° to 70°C		
Operating Temperature:			
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") H, W, D		
	0.06kg (0.13lbs)		



