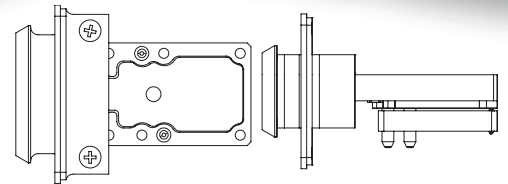
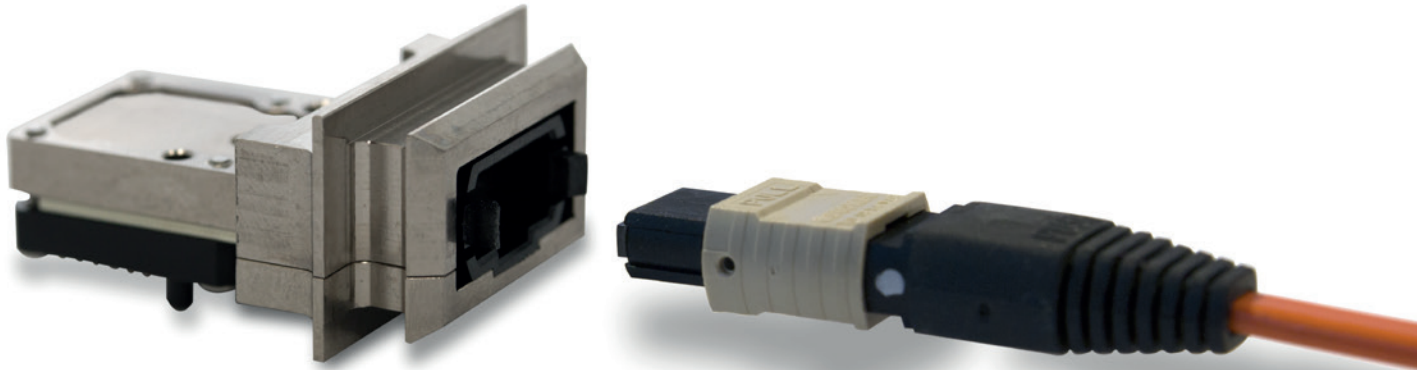


The most rugged high-performance embedded parallel optics.



Real size for *LightVISION* with *LightSNAP* interface.

LightVISION with **LightSNAP** interface up to **150G**

Key advantages

- Flexible height with LGA interposer
- Rugged RoHS electrical interface
- Screw-in optical module
- Standard MTP/MPO cable connection
- Robust, board-mounted optical module with reduced footprint
- **Performance:** up to 150G from -40°C to 85°C
- **Low power consumption:** 100 mW per lane

Configurations

- 2, 4, 6, 8, 10, 12-lane transmitter
- 2, 4, 6, 8, 10, 12-lane receiver
- 4-lane transceiver

Applications

- Smart car, high-resolution cameras
- LIDAR connection to embedded computer
- Smart city, surveillance cameras
- Industry 4.0
- Machine vision

LightVISION with **LightSNAP** interface product summary

The *LightVISION*™ is a screw-in, robust, industrial and RoHS optical module with *LightSNAP*™ interface. *LightSNAP* adds a standard MPO pluggable optical interface to the *LightVISION* optical module. This combination allows a standard MPO cable to be plugged into the optical module and also mounted on the face-plate of a box or line-card. This approach offers a standard MPO cable connection with a robust, board mounted optical engine providing small size (footprint) and convenient optical cabling at the same time. In addition, the MPO connector is covered with an outside cover boot addressing the issue of water and dust contamination.

LightVISION with LightSNAP features

The *LightVISION*™ module is offered with bandwidth from 25G (2 TX or 2 RX lane) to 150G (12 TX or 12 RX lane). All modules operate at up to 12,5 Gbps per lane with a BER as low as 10^{-12} and a -9 dBm sensitivity.

- Multimode 850 nm wavelength laser
- Over 100 m reach on OM3 ribbon fiber
- Standard MPO parallel fiber connector
- Equalizer, pre-emphasis, adjustable output
- Monitoring: LOS, RSSI, temperature etc.
- Integrated microcontroller
- Available in commercial (0 °C to 70 °C) and industrial* (−40 °C to 85 °C) grade temperature ranges

LightVISION with LightSNAP interface ordering information

Part Number	Product Description	Lanes	Bandwidth (Gbps/lane)	Sensitivity (dBm)	Mounting	Optical Interface	Operating Temperature* (°C)
VMX04P618532101	VM 4TRX transmit/receive	4+4	12.5	−9	RoHS LGA interposer	MTP/MPO	−40 to 85
VMX04P618512101	VM 4TRX transmit/receive	4+4	12.5	−9	RoHS LGA interposer	MTP/MPO	0 to 70
VMT12P618533001	VM 12TX transmitter	12	12.5	n.a.	RoHS LGA interposer	MTP/MPO	−40 to 85
VMT12P618513001	VM 12TX transmitter	12	12.5	n.a.	RoHS LGA interposer	MTP/MPO	0 to 75
VMR12P618530101	VM 12RX receiver	12	12.5	−9	RoHS LGA interposer	MTP/MPO	−40 to 85
VMR12P618510101	VM 12RX receiver	12	12.5	−9	RoHS LGA interposer	MTP/MPO	0 to 70

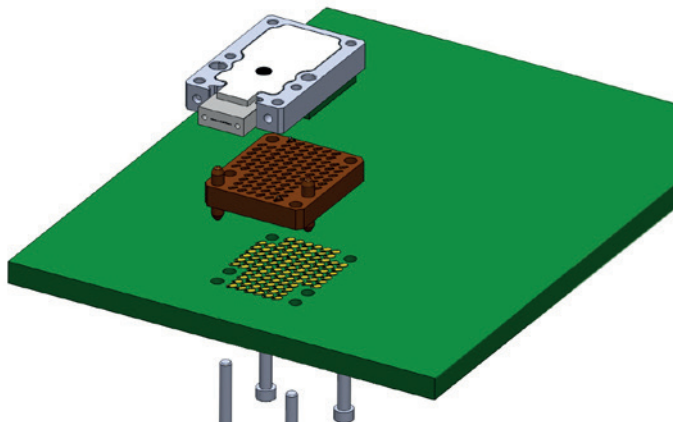
CUSTOM CONFIGURATION

VMTXXP618533001	VM XXTX transmitter	XX	12.5	n.a.	RoHS LGA interposer	MTP/MPO	−40 to 85
VMTXXP618513001	VM XXTX transmitter	XX	12.5	n.a.	RoHS LGA interposer	MTP/MPO	0 to 70
VMRXXP618530101	VM XXRX receiver	XX	12.5	−9	RoHS LGA interposer	MTP/MPO	−40 to 85
VMRXXP618510101	VM XXRX receiver	XX	12.5	−9	RoHS LGA interposer	MTP/MPO	0 to 70

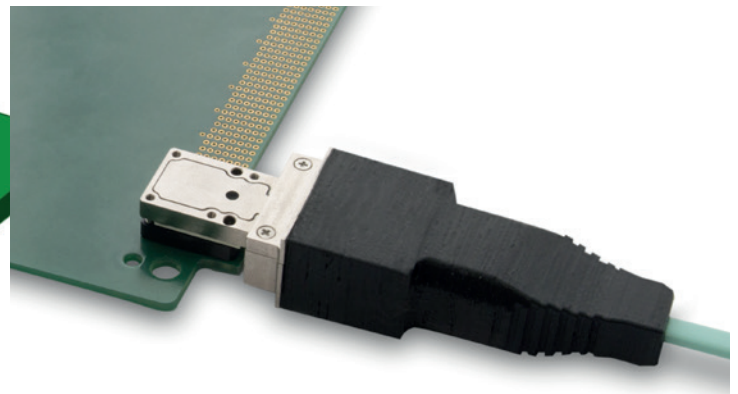
ACCESSORIES

Part Number	Product Description
415-00006	<i>LightSNAP</i> adapter kit
500-00090	<i>LightSNAP</i> cable

*Industrial part qualified between -40°C and 85°C at 10.3125 Gbps.



LightVISION LGA interposer and board attachment.



Cable assembly with rubber boot connected to *LightSNAP* interface.

THE *Light* on Board® Company

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Reflex Photonics is certified to ISO 9001

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