

REFLEXPHOTONICS®

The most rugged high-performance embedded parallel optics.



SNAP12 40G, 75G, and 120G

Key advantages

- **Rugged:** MIL-STD 883 shock and vibration qualified
- **Performance:** Up to 120 Gbps per module
- **Industrial operating temperature:** -40°C to 95°C
- **Proven:** thousands used in Aerospace & Defense and industrial applications
- **Reliable:** rugged construction to provide long life and consistent service
- **Easy to use:** Plug & Play - Standard MPO/MTP optical interconnect
- **Interoperable:** SNAP12 MSA compliant

Applications

- Advanced manufacturing
- Industrial automation
- Machine vision
- In-flight entertainment systems and connectivity (IFEC)
- High performance computer interconnects
- Aerospace & Defense
- Medical equipment

SNAP12 product summary

SNAP12 is a 12 lane pluggable parallel optical transmitter or receiver module with a standard chassis mountable MPO interface. It is a self-contained, electrical to optical converter, which requires no internal fiber management or handling. All modules include Reflex Photonics' state of the art *LightABLE™* optical packaging technology. The Reflex's SNAP12 high speed rugged modules are used extensively in avionics for IFEC (in-flight entertainment and connectivity) applications, high performance computers, industrial and medical equipment.

THE *Light* on Board® Company

SNAP12

Features

- 12 independent parallel optical lanes
- Data rate of up to 10.3125 Gbps per lane
- Industrial (-40°C to 95°C) and commercial (0°C to 70°C) operating temperatures
- Standard MPO/MTP interconnect
- Single 3.3 V power supply
- OM3 and OM4 multimode fibers supported
- Data protocol agnostic

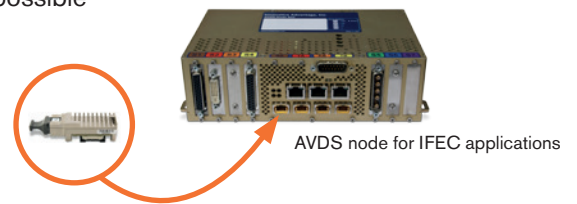
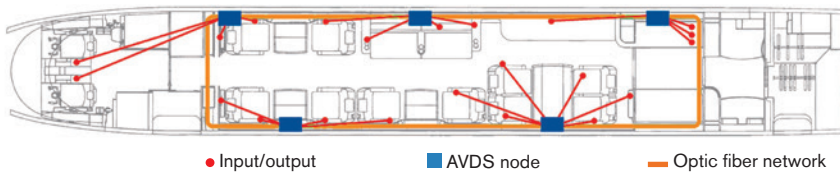
Configurations


- 12-lane transmitter
- 12-lane receiver
- 12-lane PPOD transmitter (2017-Q1)
- 12-lane PPOD receiver (2017-Q1)

Application example

The use of the SNAP12 in the audio video distribution systems (AVDS) for in-flight entertainment and connectivity applications brings numerous advantages such as:

- Ability to distribute uncompressed video - the highest quality distribution possible
- Reduced aircraft wiring
- Reduced system weight
- Fault tolerance
- EMI/EMC and lightning tolerance over copper interconnects



 Illustration courtesy of Innovative Advantage

SNAP12 ordering information

Part Number	Product Description	Bandwidth (Gbps/lane)	Operating Temperature (°C)
SN-T12-C01801-33	12-lane transmitter, RoHS	10.3125	-40 to 95
SN-R12-C01801-33	12-lane receiver, RoHS	10.3125	-40 to 95
SN-T12-C01001-33	12-lane transmitter, RoHS	6.25	-40 to 95
SN-R12-C01001-33	12-lane receiver, RoHS	6.25	-40 to 85
SN-T12-C00501-33	12-lane transmitter, RoHS	3.125	-40 to 95
SN-R12-C00501-33	12-lane receiver, RoHS	3.125	-40 to 85
SN-T12-C01801-23	12-lane transmitter, RoHS	10.3125	0 to 70
SN-R12-C01801-23	12-lane receiver, RoHS	10.3125	0 to 70
SN-T12-C01001-23	12-lane transmitter, RoHS	6.25	0 to 70
SN-R12-C01001-23	12-lane receiver, RoHS	6.25	0 to 70
SN-T12-C00501-23*	12-lane transmitter, RoHS	3.125	0 to 70
SN-R12-C00501-23*	12-lane receiver, RoHS	3.125	0 to 70

*: Fully MSA compliant

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Reflex Photonics is certified to ISO 9001

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