

REFLEXPHOTONICS®

The most rugged high-performance embedded parallel optics.



SNAP12 40G and 75G

Key advantages

- **Rugged:** MIL-STD 883 shock and vibration qualified
- **Performance:** Up to 75 Gbps per module
- **Industrial operating temperature:** -40°C to 85°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

SNAP12 product summary

SNAP12 is a 12 channel 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, and medical equipment.

Applications

- In-flight entertainment systems and connectivity (IFEC)
- High performance computer interconnects
- Aerospace & Defense
- Medical equipment

SNAP12

Features

- 12 independent parallel optical channels
- Data rate of up to 6.25 Gbps per channel
- Industrial (-40°C to 85°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-channel transmitter
- 12-channel receiver
- 12-channel PPOD transmitter (2017-Q1)
- 12-channel PPOD receiver (2017-Q1)


Application example

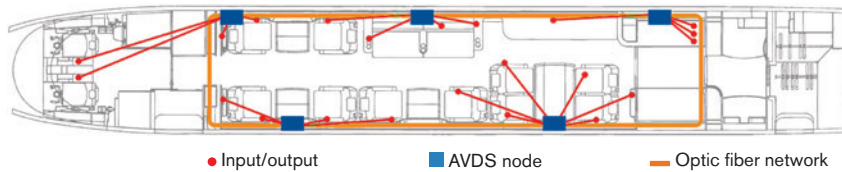
The use of the SNAP12 in the audio video distribution systems (AVDS) for in-flight entertainment and connectivity applications brings numerous advantages such as:

- 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



AVDS node for IFEC applications

 Illustration courtesy of Innovative Advantage



• Input/output ■ AVDS node — Optic fiber network

SNAP12 ordering information

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

THE *Light* on Board® Company

www.reflexphotonics.com

Reflex Photonics Inc.

16771, Chemin Ste-Marie
Kirkland, QC
H9H 5H3, Canada

For information on Reflex Photonics products, contact:

sales@reflexphotonics.com
+1.514.842.5179 (Montreal)
+1.408.715.1781 (USA)



Reflex Photonics is certified to ISO 9001

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