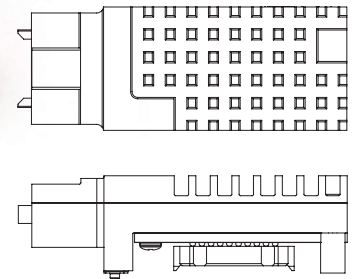
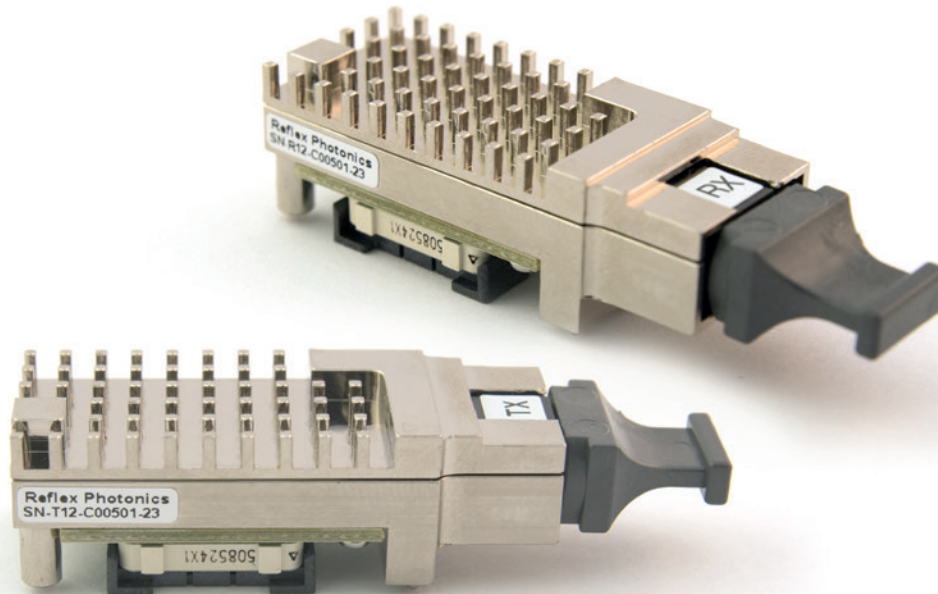


REFLEXPHOTONICS®

The most rugged high-performance embedded parallel optics.



Real size of SNAP12 module.

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

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 SNAP12 high speed rugged modules are used extensively in avionics for IFEC (in-flight entertainment and connectivity) applications, high performance computers, and industrial and medical equipment.

Configurations

- 12-lane transmitter
- 12-lane receiver

Applications

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

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

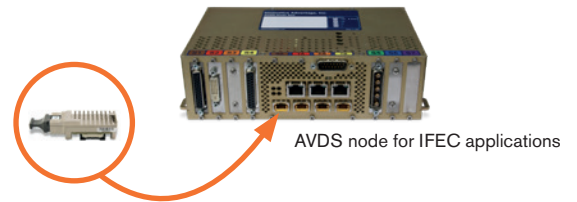
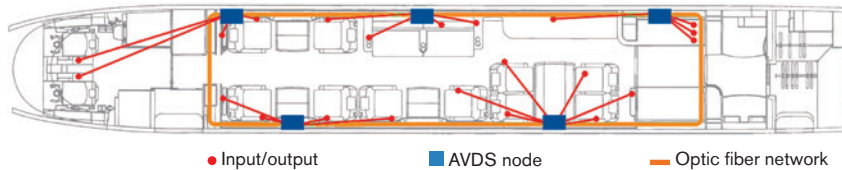


 Illustration courtesy of Innovative Advantage

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

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

All specifications are subject to change without notice. All brands are trademarks or registered trademarks of their respective owners and third party entities. Copyright © 2018 by Reflex Photonics.
SNAP12_EN_201806