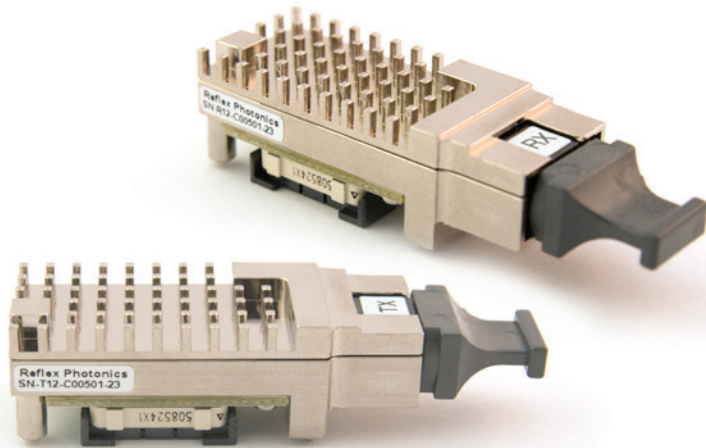


# SNAP12

40G, 75G, and 120G Optical Transmitters and Receivers



The SNAP12 family of optical embedded transceivers are affordable, reliable, high-performance embedded optical transceivers with bandwidth up to 120 Gbps.

These are well suited for high-bandwidth commercial aerospace systems with the added benefit of reducing aircraft wiring and system weight and bringing fault, EMI/EMC and lightning tolerance.

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

MSA-compliant industrial multichannel optical transceivers designed for commercial aerospace applications

## Key advantages

- **Performance:** up to 10.3125 Gbps/channel
- **Proven:** thousands used in IFEC 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
- Commercial (0 °C to 70 °C) operating temperature range

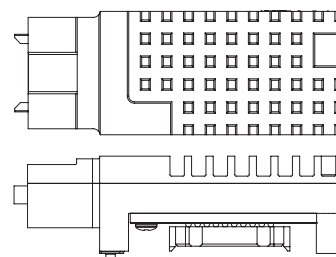
## Configurations

- 12-channel transmitter
- 12-channel receiver

## Applications

- In-flight entertainment systems and connectivity (IFEC)
- Advanced manufacturing, industrial automation and machine vision
- High performance computer interconnects
- Defense and commercial aerospace
- Medical equipment

## Life size illustration



Real size of SNAP12 module.

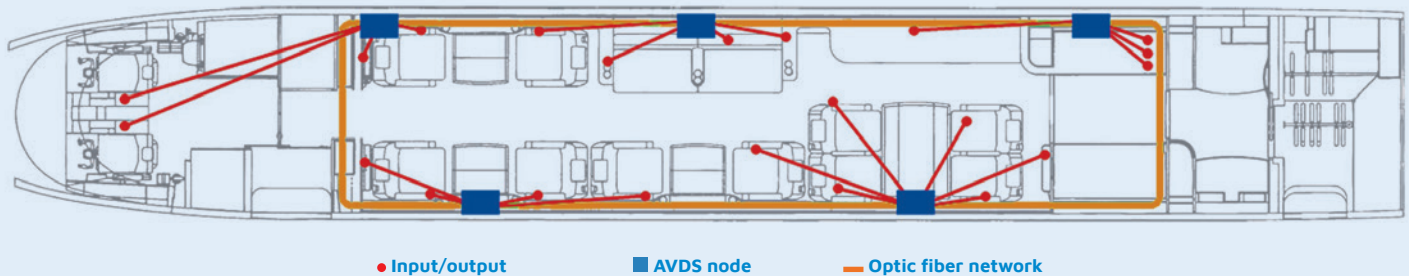
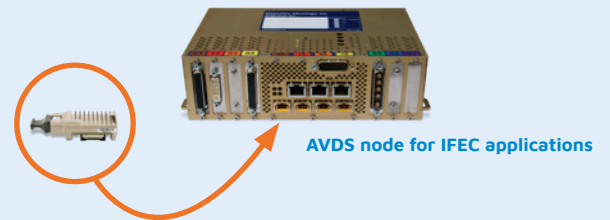
# SNAP12 Features

- 12 independent parallel optical channels
- Data rates: 3.125, 6.25, and 10.3125 Gbps per channel
- Commercial (0 °C to 70 °C) operating temperature range
- Standard MPO/MTP interconnect
- Single 3.3 V power supply
- Support for OM3 and OM4 multimode fibers cables
- 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



Innovative Advantage Illustration courtesy of Innovative Advantage

# SNAP12 ordering information

Part Number	Product Description	Channels	Bandwidth (Gbps/ch.)	Soldering	Operating Temp. (°C)
<a href="#">SNT12C0180126</a>	SNAP12 transmitter	12	10.3125	RoHS	0 to 70
<a href="#">SNR12C0180126</a>	SNAP12 receiver	12	10.3125	RoHS	0 to 70
<a href="#">SNT12C0100126</a>	SNAP12 transmitter	12	6.25	RoHS	0 to 70
<a href="#">SNR12C0100126</a>	SNAP12 receiver	12	6.25	RoHS	0 to 70
<a href="#">SNT12C0050126*</a>	SNAP12 transmitter	12	3.125	RoHS	0 to 70
<a href="#">SNR12C0050126*</a>	SNAP12 receiver	12	3.125	RoHS	0 to 70

\*: Fully MSA compliant

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