The most rugged high-performance embedded parallel optics.

Key advantages

- **Performance**: up to 12.5 Gbps/lane
- **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
- **Available in commercial grade temperature range (0 ºC to 70 ºC)**

Configurations

- 12-lane transmitter
- 12-lane 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

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 commercial aerospace for IFEC (in-flight entertainment and connectivity) applications, high performance computers, and industrial equipment.
SNAP12 Features

- 12 independent parallel optical lanes
- Data rates: 3.125, 6.25, and 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

SNAP12 ordering information

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<th>Part Number</th>
<th>Product Description</th>
<th>Lanes</th>
<th>Bandwidth (Gbps/lane)</th>
<th>Soldering</th>
<th>Operating Temperature (°C)</th>
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</table>

*: Fully MSA compliant

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Reflex Photonics is certified to ISO 9001

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