Reflex Photonics SNAP12 Parallel Fiber Optic Modules

**Product Summary**

Reflex Photonics SNAP12 is a 12 channel pluggable parallel optical transmitter or receiver module. All modules include Reflex Photonics’ state of the art LightABLE™ optical packaging technology. The SNAP12 Transmitter and Receiver modules enable high performance multi-channel optical links designed for high-speed data communications and computing applications. The module operates at up to 3.125 Gbps per channel in commercial temperature ranges. The interconnect distance is up to 300m.

**Applications:**

- Board to board interconnect
- Rack to rack interconnect
- System to system interconnect
- Server farms and mass storage interconnects
- High performance computing
- OIF-VSR5-01 (Very Short Reach OC-768)

**Specification and Feature Highlights:**

- 12 independent parallel optical channels
- Data rate of up to 3.125 Gbps per channel
- Commercial operating range (0°C to +70°C)
- Compatible with SNAP 12 MSA
- High reliability via advanced LightABLE™ technology
- 100mw / channel typical power consumption
- Field replaceable
- Card edge mountable
- CML/LVDS/PECL compatible electrical I/O
- OM3 and OM4 multi-mode fibers supported
- Single 3.3V power supply
- Standard MPO/MTP™ interconnect
- 850-nm short-reach OIF-VSR compatible
- Protocol agnostic

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Complete end-to-end 12 channel parallel optical link

12 Electrical high-speed input data
MTP/MPO connector

Optical Fiber Ribbon cable up to 300m (12 fibers)
MTP/MPO connector

12 Electrical high-speed output data
Transmitter module
Receiver module
Control signals
**Functional Diagram**

**Optical Interface Lanes**

The figure and table below show the orientation of the multimode fiber facets of the optical connector.

**Mechanical**

Transmitter and Receiver mechanical outline.

**Ordering Information**

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For Part Number and more information or other packaging options contact sales at

1-514-842-5179 or 1-408-715-1781 or sales@reflexphotonics.com