Reflex Photonics SNAP12
Commercial & Industrial up to 3.125, 6.25 and 10.3125 Gbps
Parallel Optical Transmitter/Receiver

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 modules are offered in 3.125, 6.25 and 10.3125 Gbps per channel versions in commercial and industrial 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 10.3125 Gbps per channel
- Commercial operating range 0 to +70°C
- Industrial operating range -40 to +95°C
- 3G commercial version fully compatible with SNAP12 MSA
- High reliability via advanced LightABLE™ technology
- 100mw / channel typical power consumption
- Field replaceable
- Card edge mountable
- CML/LVDS 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
Functional Diagrams of SNAP12 TX / RX modules

**Optical Interface Lanes**

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

![Optical Interface](image)

**Key Up**

Channel 12

Channel 1

**Mechanical Diagram**

Transmitter and Receiver mechanical outline. (Heatsink free version drawings available in datasheet 970-00257.)

**Ordering Information**

<table>
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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