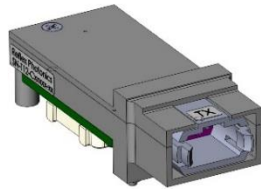## Reflex Photonics SNAP12
Commercial & Industrial up to 3.125, 6.25 and 10.3125 Gbps
Parallel Optical Transmitter/Receiver

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 *Light*ABLE™ 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.
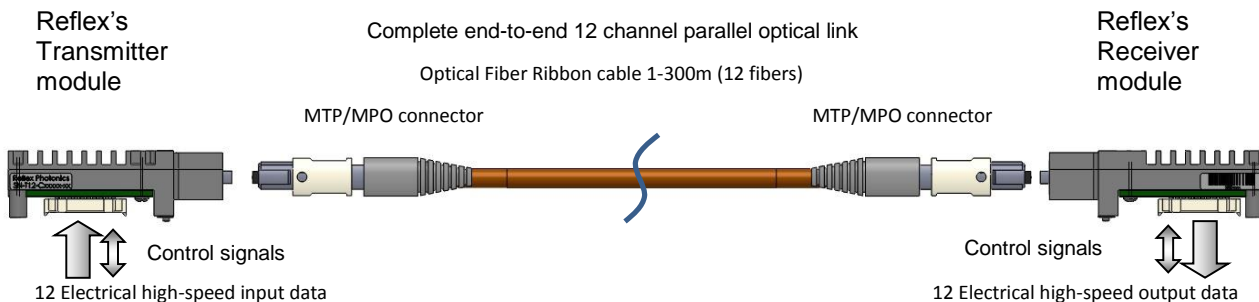
The modules are offered in **3.125, 6.25 and 10.3125 Gbps** per channel versions in **commercial** and **industrial temperature** ranges. The interconnect distance is up to 300m.
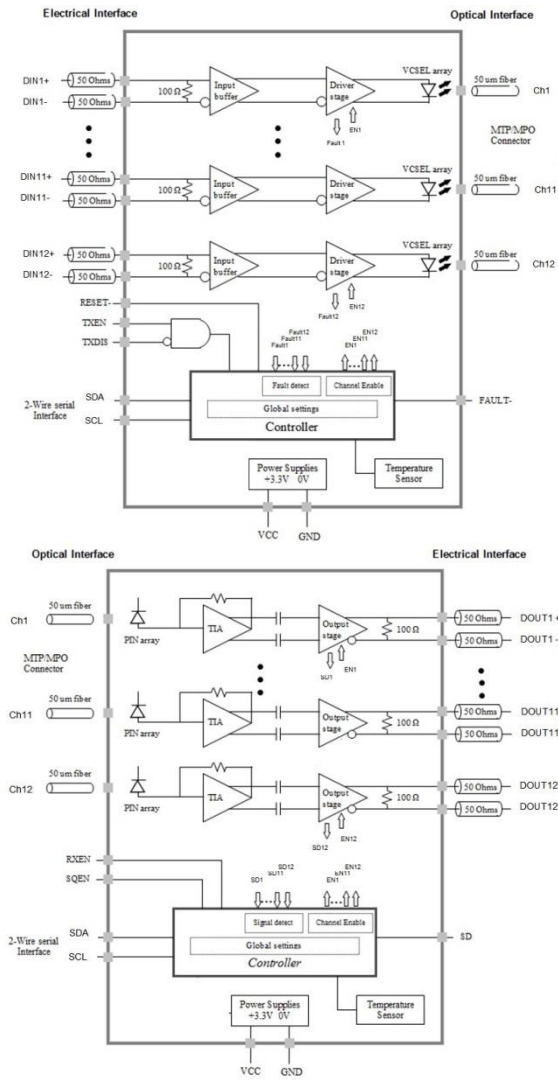
Applications:

- 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 *Light*ABLE™ 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
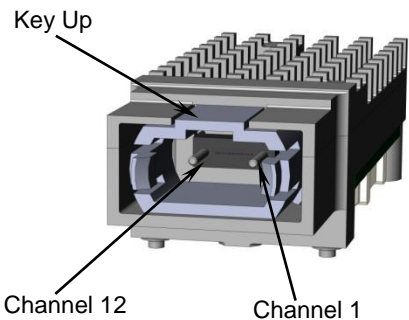- Protocol agnostic

Reflex's Transmitter module

Complete end-to-end 12 channel parallel optical link

Optical Fiber Ribbon cable 1-300m (12 fibers)

MTP/MPO connector

MTP/MPO connector

Reflex's Receiver module

Control signals

12 Electrical high-speed input data

Control signals

12 Electrical high-speed output data

REFLEXPHOTONICS®

Functional Diagram
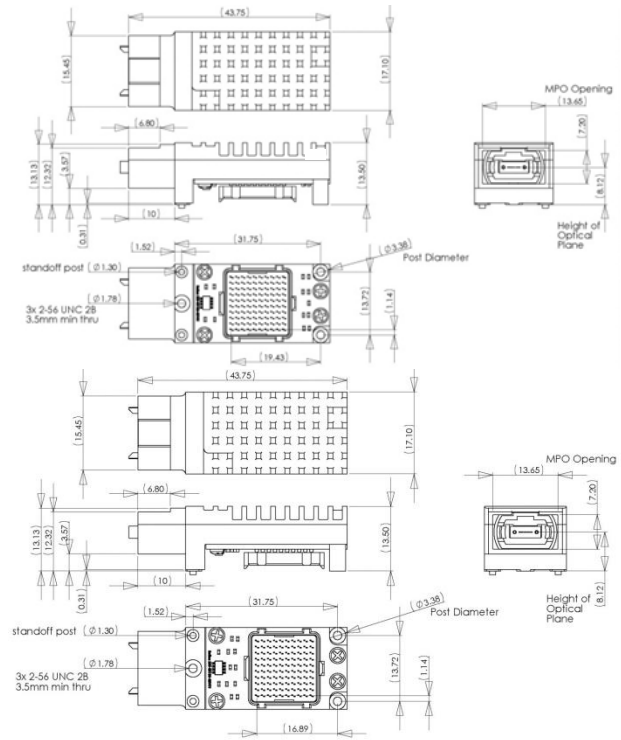

Functional Diagrams of SNAP12 TX / RX modules

Optical Interface Lanes

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

Functional Diagrams of SNAP12 TX / RX modules

Mechanical

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

Ordering Information

Description
Transmitter, Heat sink, **RoHS**, 3.125 Gbps (6.25, 10.3125) per channel Industrial Temp. range -40 to +95 °C (Tcase)
Receiver, Heat sink, **RoHS**, 3.125 Gbps (6.25, 10.3125) per channel Industrial Temp. range -40 to +95 °C (Tcase)
Transmitter, Heat sink, **RoHS**, 3.125 Gbps (6.25, 10.3125) per channel Commercial Temp. range 0 to +70 °C (Tcase)
Receiver, Heat sink, **RoHS**, 3.125 Gbps (6.25, 10.3125) per channel Commercial Temp. range 0 to +70 °C (Tcase)

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