

## FEATURES

- Dual channel fiber optic receivers
- Up to 4.25 Gbps data throughput
- Wide dynamic range PIN-PD or APD receivers
- Low 1 W typical power dissipation
- Pluggable SFP MSA footprint
- Duplex LC/UPC connector

The RR4000-00-PI and RR4010-00-PI Dual Channel Optical Receiver Modules provide two independent receiver ports in a single SFP package and are ideally suited for the high-speed communications required for many of CommScope's digital networking products.

Conforming to the Small Form Factor Pluggable (SFP) Multisource Agreement, these state-of-the-art plug-in components are designed for applications that require rates of up to 4.25 Gbps. The modules are supplied with a duplex LC connector.

The RR4000-00-PI features a PIN photodiode with -23 dBm sensitivity. The RR4010-00-PI shares the same characteristics but with an increased sensitivity of -31 dBm using an avalanche photodiode.



## SPECIFICATIONS

| Characteristics  | Specification  |
|--|--|
| <b>Physical</b>  |  |
| Dimensions   | 2.3" L x 0.4" H x 0.6" W (5.8 cm x 1.0 cm x 1.5 cm)  |
|  | MSA Compliant SFP Package  |
| Weight   | 0.1 lb (0.05 kg)   |
| <b>Environmental</b>   |  |
| Operating Temperature  | -40° to +85°C (-40° to +185°F)   |
| Storage Temperature  | -40° to +85°C (-40° to +185°F)   |
| Humidity   | 5% to 95% non-condensing   |
| <b>Optical Interface</b>   |  |
| Optical Connectors   | Duplex LC/UPC  |
| <b>Power Requirements</b>  |  |
| Input Voltage  | 3.3 V <sub>DC</sub> nominal from chassis resident backplate  |
| Power Consumption  | 1.2 W max  |
| <b>General</b>   |  |
| Data Rates   | Up to 4.25 Gbps based on optical input   |
|  | Hot plug-in/out  |
| <b>Optical Receiver</b>  |  |
| Receiver Type  | RR4000-00-PI: PIN Photodiode<br>RR4010-00-PI: Avalanche Photodiode (APD)   |
| Optical Wavelength   | 1263.5 nm to 1617.5 nm   |
| Return Loss  | 27 dB min  |
| Sensitivity<br>(0 km fiber, PRBS 2 <sup>23</sup> -1, BER < 10 <sup>-12</sup> ) | RR4000-00-PI:<br>-23 dBm @ 2.125 Gbps<br>-21 dBm @ 3.1875 Gbps<br>-16 dBm @ 4.25 Gbps<br><br>RR4010-00-PI:<br>-31 dBm @ 2.125 Gbps<br>-29 dBm @ 3.1875 Gbps<br>-23 dBm @ 4.25 Gbps |
| Input Power  | RR4000-00-PI: 0 dBm max.<br>RR4010-00-PI: -6 dBm max.  |
| Loss of Signal Assert Level  | RR4000-00-PI: -30 dBm<br>RR4010-00-PI: -36 dBm   |

## ORDERING INFORMATION

| Model Name   | Description   |
|--------------|---|
| RR4000-00-PI | Dual, plug-in receiver, SFP type for 2.125, 3.1875, and 4.25 Gbps applications                  |
| RR4010-00-PI | Dual, high sensitivity plug-in receiver, SFP type for 2.125, 3.1875, and 4.25 Gbps applications |

## RELATED PRODUCTS

|                                |                                |
|--------------------------------|--------------------------------|
| BP3400C-00 Headend Back Plate  | DR3450N-50-00 Digital Receiver |
| DR3450N-75-00 Digital Receiver | Installation Services          |

Contact Customer Care for product information and sales:

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**Note:** Specifications are subject to change without notice.

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87-10636-RevJ\_RR40x0-00-PI\_ReceiverPlugin\_SFP