

SFP Fiber Optic Transceivers

RR40x0-00-PI

Dual Channel Optical Receiver Module

FEATURES

- Up to 4.25 Gbps data throughput
- Wide dynamic range PIN-PD or APD receivers
- Pluggable SFP MSA footprint
- Duplex LC/UPC connector
- Metal enclosure for lower EMI
- 3.3 V power supply with low power dissipation
- Extended operating temperature range



PRODUCT OVERVIEW

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

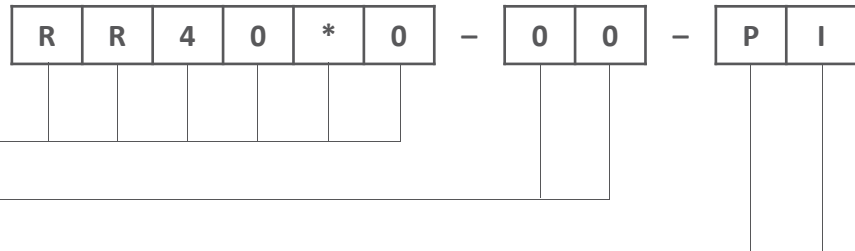
Conforming to the Small Form Factor Pluggable (SFP) Multisource Agreement, these state-of-the-art plug-in components are designed for applications that require rates of up to 4.25 Gbps. The modules are supplied with a duplex LC connector.

The RR4000-00-PI operates at extended temperature ranges, and dissipates less than 1.2 W. The RR4010-00-PI shares the same characteristics but operates at increased sensitivity levels.

SPECIFICATIONS

Characteristics	Specification
Physical	
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 lbs (0.05 kg)
Environmental	
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
Optical Interface	
Optical connectors	Duplex LC/UPC
Power requirements	
Input voltage	3.3 V _{DC} , 2A from external power adapter
Power consumption	1.2 W max
General	
Data rates	2.125, 3.1875, 4.25 Gbps
Hot plug-in/out	
Optical Receiver	
Receiver type	<ul style="list-style-type: none"> RR4000-00-PI: PIN RR4010-00-PI: APD
Optical wavelength	1263.5 nm to 1617.5 nm
Return loss	27 dB min
Sensitivity	(0 km fiber, PRBS 2 ²³ -1, BER <10 ⁻¹²) <ul style="list-style-type: none"> RR4000-00-PI <ul style="list-style-type: none"> -23 dBm @ 2.125 Gbps -21 dBm @ 3.1875 Gbps -16 dBm @ 4.25 Gbps RR4010-00-PI <ul style="list-style-type: none"> -31 dBm @ 2.125 Gbps -29 dBm @ 3.1875 Gbps -23 dBm @ 4.25 Gbps
Input power	<ul style="list-style-type: none"> RR4000-00-PI: 0 dBm max RR4010-00-PI: -6 dBm max
Loss of Signal assert level	<ul style="list-style-type: none"> RR4000-00-PI: -30 dBm RR4010-00-PI: -36 dBm

ORDERING INFORMATION



- Dual Channel Optical Receiver Module
- * = Sensitivity Level Key (0 or 1)
reference specifications in above information
- Reserved Fields

RELATED PRODUCTS

BP3400C-00 Headend Back plate	DR3450N-50-00 Digital Receiver
	DR3450N-75-00 Digital Receiver

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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