

FEATURES

- Four-module-wide back plate for up to four DR3450N or DR3600N Quad Digital Receivers in CH3000 chassis
- Optical-to-electrical conversion using dual channel SFP receiver modules
- Simplifies installation and reduces rack space requirements
- Hot plug-in/out

The CommScope BP3400C-00 Optical Receiver Back Plate converts optical signals to electrical signals and passes them through high-speed connectors to up to four 100 MHz DR3450N Quad Digital Receiver or DR3600N 204 MHz Quad Digital Receiver modules to which it is mated in the CH3000 Chassis. The RR40xx-00-PI 2.125/4.250 or the 10.3125 Gbps RR36xx-00-PI series dual-channel optical receiver SFPs are used to receive the optical signals from downstream nodes in the network. Eight such SFPs are used (as shown in the photo) when the back plate is mated to four DR3xxxN modules using 1-fer mode. Each DR3450N or DR3600N module provides four separate receivers in each chassis slot (i.e., each receiver having a discrete optical input and RF output).



When the back plate is mated to four DR3450N or DR3600N receivers in “2-fer” mode, only four RR40xx-00-PI or RR36x0-0-PI series SFPs are required to be installed in the back plate. In this configuration each receiver module utilizes two inputs each containing two data streams from different network segments (hence “2-fer”). To achieve this, two optical inputs from remote nodes are connected to the two receive ports contained in one dual receiver SFP for each DR3450N or DR3600N. The two outputs from the SFPs (and back plate) are routed to the digital receiver where the 4 separate, individual RF signals are recovered.

Additionally, management traffic from the digital receivers may be converted to optical transmission by using a TR4000-PI plug-in transceiver module (as shown in the photo) for transport to an NI3030N Network Interface Module.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	7.5" D x 5.0" H (3RU) x 4.25" W (19 cm x 13 cm x 11 cm) (no chassis slot required)
Weight	2 lbs. (0.9 kg)
Environmental	
Operating Temperature Range	-20° to +65°C (-4° to 149°F)
Storage Temperature Range	-40° to +85°C (-40° to 185°F)
Humidity	5% to 95% non-condensing
Power Requirements	
Power Consumption	12 W max, including SFPs
General	
	Hot plug-in/out
RF and Optical Interfaces	
RF Output Connectors (16)	F-type female
	Sockets for installation of up to eight (8) model RR40xx-00-PI plug-in dual-channel receiver SFPs
	NOTE: 8 SFPs provide 16 LC/UPC connections for operation in “1-fer” mode. 4 SFPs provide 8 LC/UPC connections for operation in “2-fer” mode. Reference the RR40x0-00-PI or RR36x0-00-PI SFP Data Sheets for optical input power levels, LOS assert levels, and other information. Refer to the DR3450N and DR3600N Technical Manuals for configuration details.
	Socket for installation of one optional model TR4000-PI plug-in SFP
Line Speed	
Receive on SFP Ports	2.125 Gbps, 3.1875 Gbps, 4.25 Gbps, 10.3125 Gbps. See RR40x0-00-PI or RR36x0-00-PI SFP Data Sheets.
TX/RX Ethernet/Monitoring Data (Optional SFP), max	2.125 Gbps
Status Indicator LEDs	
Optical Input Ports	
LOS	Red indicates loss of signal
TR4000-PI Plug-in Transceiver Port	
TX	Red indicates transceiver present, but transmitter laser failure
RX	Red indicates transceiver present, but input signal is out-of-range at the transceiver input port or failed receiver
2-fer	
Green	Indicates that the DR3xxxN in the respective slot (A, B, C, D) is configured in a “2-fer” mode
Off	Indicates that the DR3xxxN in the respective slot is in the “1-fer” mode

ORDERING INFORMATION

Model Name	Description
BP3400C-00	Quad Digital Receiver Back Plate

RELATED PRODUCTS

DR3600N 204 MHz Quad Receiver	DT4600N 204 MHz Transceiver
RR40x0/RR36x0 Dual Optical SFP Receivers	DR3450N Quad Receiver
Management Module	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
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Note: Specifications are subject to change without notice.

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