

ARRIS DR3250N

DUAL DIGITAL RECEIVER (5-100 MHz PASSBAND)

The DR3250N Dual Digital Receiver utilizes ARRIS's state-of-the-art digital reverse technology to receive 5–100 MHz RF signals. Its capabilities allow deployment of compact and robust high speed digital broadband systems. ARRIS's DR3250N receiver interfaces with the BP3100C-00 Optical Receiver Back Plate, enabling up to eight digital receivers (two receivers per module) to be installed in four adjacent module slots of ARRIS's 3RU CH3000 chassis. A total of 24 receivers (12 DR3250N modules) and three associated BP3100C back plates can be installed in each chassis, while supporting redundant power supplies.



- High packaging density, two receivers per single width, full-depth module
- Single channel link mode or dual channel "2-fer" link modes, selectable via software user interface
- High RF output: (–32 dBmV/Hz typical)
- Superior noise performance
- RF output level is independent of optical input power and provides output level stability in alternate routing applications
- Front access –20 dB test points
- Hot plug-in/out
- Local and remote status monitoring
- Occupies one full-depth slot



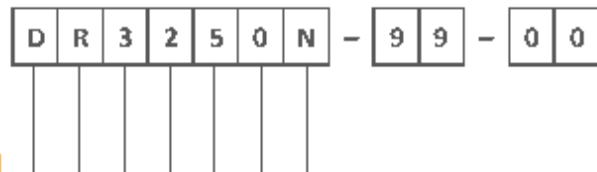
SPECIFICATIONS

PHYSICAL		ENVIRONMENTAL	
Dimensions	13.0" D x 4.3" H x 1.0" W (3RU) (33 cm x 11 cm x 2.5 cm)	Operating temperature range	-20° to +65°C (-4° to 149°F)
		Storage temperature range	-40° to +85°C (-40° to 185°F)
Weight	1.6 lbs(0.72 kg)	Humidity	5% to 95% non-condensing
OPTICAL INTERFACE		ELECTRICAL (RF PATH – EACH CHANNEL)	
Optical connectors	LC/UPC in SFP (on RR40xx in Back Plate BP3100C-00)	Passband	5-100 MHz
ELECTRICAL INTERFACE		Frequency response	± 0.5 dB
Main RF outputs (each channel)	F-type female connector (on Back Plate BP3100C-00)	Nominal output level	-32 dBmV/Hz with 5-100 MHz loading and -63 dBmV/Hz input to digital transceiver
Output test points (each channel)	G-type female connector (front panel, -20 dB)	Output RF level adjustment range	0-26 dB (0.5 dB increments) (-58 dB for diagnostic)
GENERAL		Output return loss	18 dB min
Hot plug-In/Out		OPTICAL (BP3100C-00 WITH RR40XX SFP RECEIVER)	
		Wavelength	1263.5 - 1617.5 nm
		Input return loss	27 dB
Manual gain alignment		Optical power input range	(see RR40xx Data Sheet)

POWER REQUIREMENTS	
Input voltage	12 VDC (provided via chassis mid-plane connection)
Power consumption	10.2 W (excluding 2.1 W power feed to 1/4 of a BP3100C-00 and SFPs)

ORDERING INFORMATION

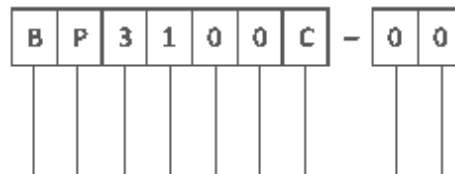
Module Part Number



Dual Digital Receiver 5-100 MHz

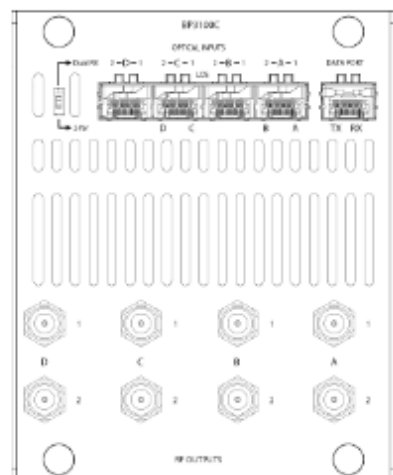
Module Back Plate

(Back plate and RR40xx SFP Receiver must be ordered separately.)



Optical Receiver Back Plate

Module Back Plate



Each back plate accommodates up to four DR3250N receiver modules.

Model BP3100C-00