

ARRIS DR3450N

QUAD DIGITAL RETURN RECEIVER WITH SELECTABLE BANDWIDTH RANGE

Der DR3450N Quad Digital Receiver nutzt ARRIS's „State-of-the-art“ Digital-Rückwärts-Technologie zum Empfang von 5-50 MHz, 5-65 MHz oder 5-100 MHz HF-Signalen. Seine Einsatzmöglichkeiten erlauben die Entwicklung von kompakten und robusten Hochgeschwindigkeits-Breitbandsystemen.

- Arbeite in drei HF Bandbreiten-Bereichen: 5-50 MHz, 5-65 MHz, 5-100 MHz (über Firmware wählbar)
- Hohe Pack-Dichte; 4 Receiver pro Modul mit einfacher Breite und voller Tiefe
- Single Channel Link Modus oder Dual Channel „2-fer“ Link Modi, wählbar über Software-Benutzerschnittstelle
- Hoher HF-Output: bis zu 38 dBmV pro 6.4 MHz Träger im 50 MHz Modus
- Verknüpfte oder Punkt-zu-Punkt Anwendungen
- 30+ dB System HF-Verstärkung vom DT4250 Transceiver-Eingang zum Receiver-Ausgang
- Unterstützt Rückweg-Transceiver von NC2000/NC4000, VHub, OM6000 und CH3000 Gehäuse
- Ausgezeichnetes Rausch-Verhalten
- -20 dB HF Testpunkt aan der Vorderseite, wählbar für jeden Eingang
- Hot plug-In/Out
- Status-Monitoring vor Ort oder über Fernsteuerung
- Belegt einen ganzen Steckplatz



SPEZIFIKATIONEN

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 (on the RR40x0 SFP in Back Plate BP3400C-00)	Passband	5-100 MHz
ELECTRICAL INTERFACE		Frequency response	± 0.5 dB
Main RF outputs (each channel)	F-type female connector (on Back Plate BP3400C-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)	
Manual gain alignment		See the RR40x0-00-PI data sheet for details	

POWER REQUIREMENTS							
Input voltage	12 VDC (provided via chassis mid-plane connection)						
Power consumption	20 W (includes 1/4 of fully loaded a BP3400C-00 with all SFPs)						
ELECTRICAL (RF PATH – EACH CHANNEL)							
Digital Transmitter used in the Return Link with DR3450	DT4250		DT4250		DT4250		
Return Bandwidth/Loading	5 – 50 MHz		5 – 65 MHz		5 – 100 MHz		
Operation Mode	1-fer	2-fer	1-fer	2-fer	1-fer	2-fer	1-fer
Line Rate (Gbps)	2.125	2.125	2.125	3.1875	4.25	4.25	2.125
Input Level (dBmV/Hz)	-60	-60	-62	-62	-63	-63	-63
System Min Full Gain (dB)	30	30	30	30	30	30	
Output (dBmV/Hz)	-30	-30	-32	-32	-33	-33	-33
Output (dBmV/6.4 MHz Channel)	38	38	36	36	35	35	35
Dynamic Range (dB)	11	11	11	11	10	11	11
NPR at which Dynamic Range is specified (dB)	47	40	40	40	47	40	40
Peak NPR (dB)	54	49	49	49	52	48	48

Digital Transmitter used in the Return Link with DR3450	DT7030-85	DT7230-85		DT3550	
Return Bandwidth/Loading	5 – 100 MHz	5 – 100 MHz		5 – 100 MHz	
Operation Mode	1-fer Normal Gain ¹ Only	2-fer Normal Gain ¹	2-fer High Gain ¹	2-fer	2-fer
Line Rate (Gbps)	4.250	4.250	4.250	4.250	4.250
Input Level (dBmV/Hz)	-60	-60	-60	-61	-61
System Min Full Gain (dB)	26.5	26.5	28.5	27	27
Output (dBmV/Hz)	-33.5	-33.5	-31.5	-34	-34
Output (dBmV/6.4 MHz Channel)	34.5	34.5	36.5	34	34
Dynamic Range (dB)	17	11	11	11	11
NPR at which Dynamic Range is specified (dB)	40	40	40	40	40
Peak NPR (dB)	49	49	49	47	47

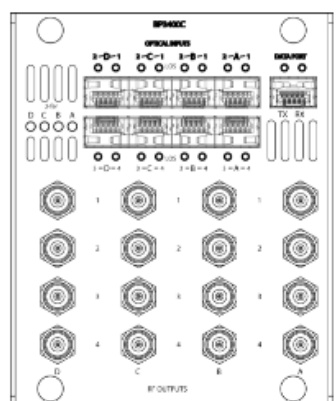
Frequency response	± 0.5 dB
Output RF level adjustment range	0-26 dB (0.5 dB increments)(-58 dB for diagnostic)
Output return loss	18 dB minimum
Optical (BP3400C-00 with RR40x0 SFP receiver)	See the RR40x0-00-PI data sheet for details.

Note:

1. Normal/High gain set on DR3450. High Gain mode is intended only for use in DR3450N links connected to DT7230 transmitters in OM6000 nodes where extra gain is necessary to provide higher gain levels occasionally seen in legacy OM6000 to CHP-D2RRX links. High gain mode will consume up to 10% additional power consumption. High gain is not available for DT7030-85 or other listed transmitters.

BESTELLINFORMATIONEN

DR3450N-50-00	Quad Digital Receiver supplied with 5-50 MHz and 5-100 MHz firmware pre-loaded
DR3450N-75-00	Quad Digital Receiver supplied with 5-65 MHz and 5-100 MHz firmware pre-loaded
BP3400C-00	Module Back Plate (Back plate and RR40x0 SFP Receiver must be ordered separately)



Each back plate accommodates up to four DR3450N receiver modules.