

ARRIS HRR 4104

RETURN PATH RECEIVER

The HRR 4104 is a high performance optical return path receiver which is optimized to operate from five up to 100 MHz return band. This compact (half slot) plug in module is designed for use in the Arris HLP 4800/4200 equipment platform. An HMC 4008 module carrier is needed and mounts two HRR 4104 modules in the platform.

The HRR 4104 is a quad receiver card. The four receivers are designed to operate independently can be configured as four redundant pairs with another HRR 4104 module.



- Very high packing density
- High RF output level
- Many configuration options
- Local control of operating parameters provided by the HLP 4800/ 4200 platform
- Remote control and monitoring provided by the NET 5200 NETWATCH Site Controller

PHYSICAL	
Dimensions	1.20" W x 4.45" H x 11.53" D (3.0 cm x 11.3 cm x 24.3 cm)
Weight	3.3 lbs (1.5 kg)
Mounting	HLP4800 platform; via HMC4008 module carrier
ENVIRONMENTAL	
Operating Temperature Range	0° to +50°C (-32° to 122°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Relative Humidity Maximum	90% non-condensing
POWER REQUIREMENTS	
Input Voltage	+24 VDC; supplied by HLP4800 bus
Consumption	15 W maximum
OPTICAL INPUT	
Maximum Input	+2 dBm
Minimum Input	-18 dBm
Wavelength	1280 to 1600 nm
OPTICAL OUTPUT	
C/IM2 ¹	≥ 60 dB
C/IM3 ¹	≥ 60 dB
RF Output Level ²	> 45 dBmV per channel at optical input of -10 dBm and 16% OMI
Operational Bandwidth	5-100 MHz
Flatness 5-70 MHz 70-100 MHz	± 0.5 dB ± 1.0 dB
RF Attenuator Adjustment Range	30 dB
Impedance	75 Ω
Return Loss	> 16 dB
Connector Type	Female F
Isolation Between Receivers 5 to 70 MHz 70 to 100 MHz	> 65 dB > 40 dB

SPECIFICATIONS



USER INTERFACE	
Front Panel Bi-state Status LED Module Selection Indicator	Normal = Green, Alarm = Red Yellow LED
Monitor Point Level	-20 dB ± 1.0 dB relative to output
Monitor Port Return Loss 5-65 MHz 65-100 MHz	-16 dB -12 dB
Impedance	75 Ω
Connector Type	Female F
ELEMENT MANAGEMENT SYSTEM	
Element Management Monitoring Port	Via the Ethernet port of the HNC4801 Platform Controller