



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Smart Technology. Delivered.

824-894 MHz/1850-1990 MHz Rotatable Shell Omni-Directional Antenna HCR8210M3



THE HCR ROTATABLE SHELL OMNIDIRECTIONAL ANTENNA – WHEN HIGH PERFORMANCE IS DESIRED & EXTREME RUGGEDNESS & LOW PROFILE IS REQUIRED.

The Laird Patent Pending HCR Rotatable Shell Omnidirectional Antenna is a tough low-profile antenna for outdoor or indoor applications. This antenna provides frequency agility, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications.

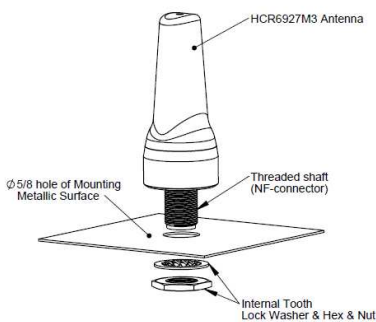
The HCR Rotatable Shell Omnidirectional Antenna is available in various industry standard mounting configurations including a threaded permanent stud mount model for vandal resistant mounting on brackets, panels, ceilings or any other kind of housing.

FEATURES AND BENEFITS

- Multi-band operation: 824-894 MHz / 1850-1990 MHz
- Meets IP67 protection rating for dust tight seal and temporary water immersion.
- Permanent mount provides vandal resistant protection for remote installations.
- Conformance to RoHS

MARKETS

- Security / Public Safety
- Commercial & Industrial - M2M
- Transportation
- Electric, Gas, & Water Utilities
- Retail, Consumer & Home
- Fixed Radio Applications



SPECIFICATIONS

	824-894	1850-1990
Frequency Bands, MHz	824-894	1850-1990
Peak Gain, dBi (Typ)	1.6	3.4
Peak Gain, dBi (Max)	1.7	3.5
VSWR (Typ)	<1.3:1	<1.5:1
VSWR (Max)	<2.0:1	<2.0:1
Nominal Impedance	50 Ω	
Polarization	Vertical (Linear)	
Azimuth Beam Width	360°, Omnidirectional	
Max Power (Ambient 25° C)	50 Watts	
Antenna Dimension (H x Dia)	83.8 x 36.5 mm (3.3" x 1.43")	
Weight	106g (.23 lbs)	
Antenna Color	Black	
Radome	PC, UV Stable, UL 94V0 Material	
Wind Survival	282 km/h (175 mph)	
Operating Temperature	-30°C - +70°C	
Storage Temperature	-40°C - +85°C	
Ingression Protection	IP67	
RoHS Compliance	YES	

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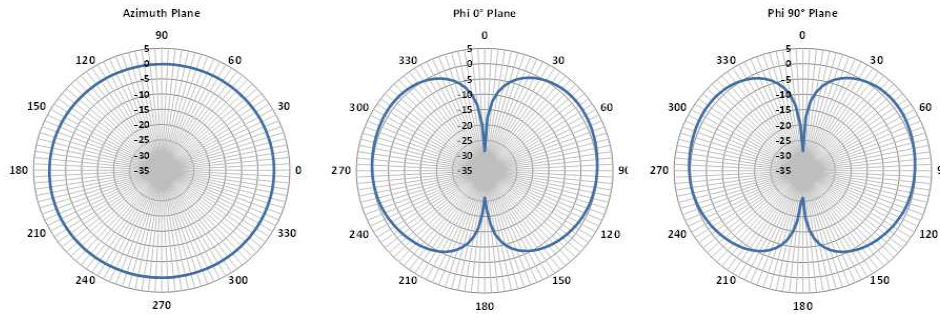
www.lairdtech.com

HCR8210M3NBN-001 NMO mount black no logo
HCR8210M3NWN-001 NMO mount white no logo

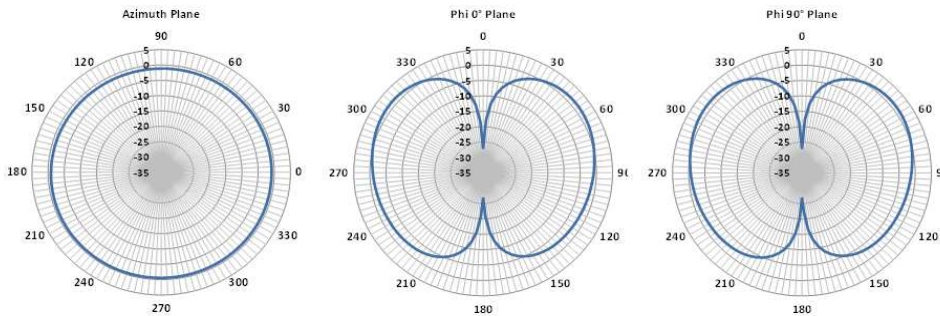
HCR821M3PBN-001 P mount black no logo
HCR821M3WBN-001 P mount white no logo

RADIATION PATTERNS: 30 cm Ground Plane

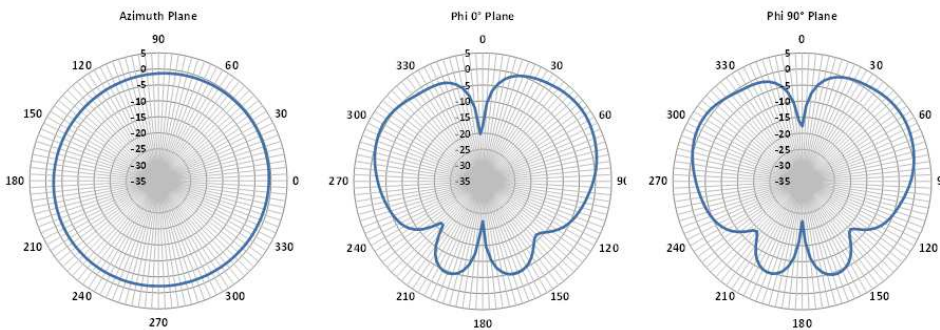
Radiation Pattern at 824 MHz



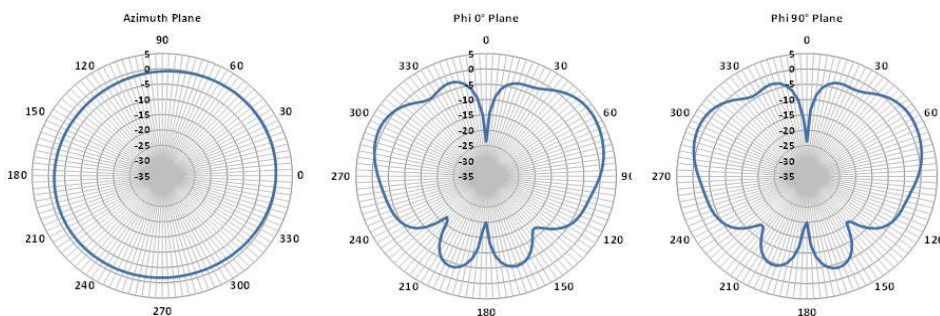
Radiation Pattern at 894 MHz



Radiation Pattern at 1850 MHz



Radiation Pattern at 1990 MHz



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