

## HyperLink Wireless 5.4 GHz 360 Degree Omnidirectional Antenna Array Model Series: HK5817-090

### Applications

- 5.8 GHz band applications
- Unlicensed European 5.4 GHz band
- IEEE 802.11a wireless LAN
- Point to multi-point systems
- Wireless internet provide "cell" sites

### Features

- High performance sectorial antennas
- 360° coverage with 0-20° mechanical up/down tilt
- Arrays available in single fed or individual fed models
- Single fed array includes 4-way signal splitter and cables
- Included antenna array mounting system



### Models

Single Fed Models (1 Input into 4 Antennas)				
Frequency	Gain	Splitter Connectors	Includes	Part Number
5.8 GHz	17 dBi*	N-Female	(4) 90° Sector Antennas (1) 4-Way Signal Splitter w/N-Female Connectors (4) 2 ft. CA-400 Jumper Cables - N-Male to N-Male (1) Array Mounting System	<b>HK5817-090NF</b>
Individual Fed Models (4 Inputs into 4 Antennas)				
Frequency	Gain	Antenna Connectors	Includes	Part Number
5.8 GHz	17 dBi*	N-Female	(4) 90° Sector Antennas (1) Array Mounting System	<b>HK5817-090</b>

### Description

The HyperLink HK5817-090 series sectorized omni array features our high performance 5.8 GHz 90° sectorial antennas. Each of the four antennas in this array can be adjusted individually (0-20° up or down tilt) to compensate for the geography of the installation location. This helps ensure maximum coverage of the array for service providers in the 5.8 GHz ISM band.

### Flexibility of Single or Individual Feeds

Ideal for smaller applications, the sectorized omni quad array is available as a single fed system (1 input into 4 antennas). Since each antenna is fed from a 4-Way signal splitter, only a single radio/amplifier is required. As the system grows additional capacity can be added by simple adding more base station radios and bypassing the splitter's array, thus feeding each antenna from a separate radio. Single fed models feature an

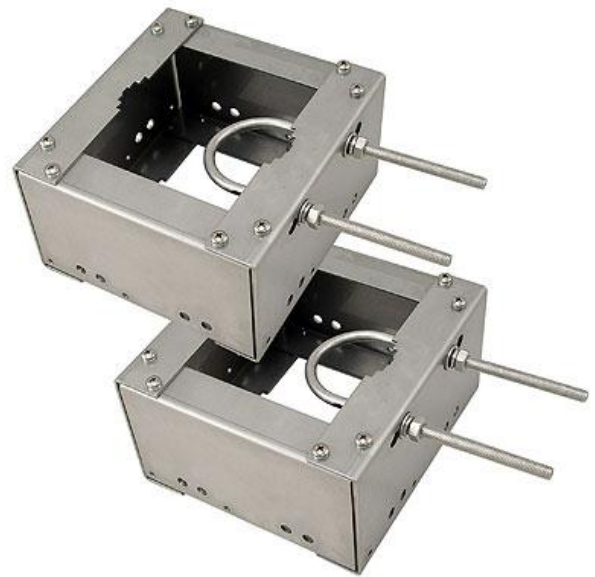


industrial grade 4-Way signal splitter (with N-Female connectors) and four 2 ft. (0.6m) CA-400 jumper cables.

For higher system capacities, the array can be purchased as an individual fed system (each antenna fed individually). The advantage of this type of system includes higher gain than the single fed systems and better isolation of each of the four antennas. Interference from adjoining antennas is reduced thus improving performance.

### Heavy Duty Construction

The HK5817-090 array is designed for all-weather operation. It features heavy-duty UV resistant PVC antenna radomes and stainless steel mounting systems. The array can be mounted directly onto masts 1¼" to 2" (31.7 to 50.8mm) in dia using the provided U-bolts. The mounting bracket can also accept 3" (76.2 mm) U-Bolts (not included) for larger masts.

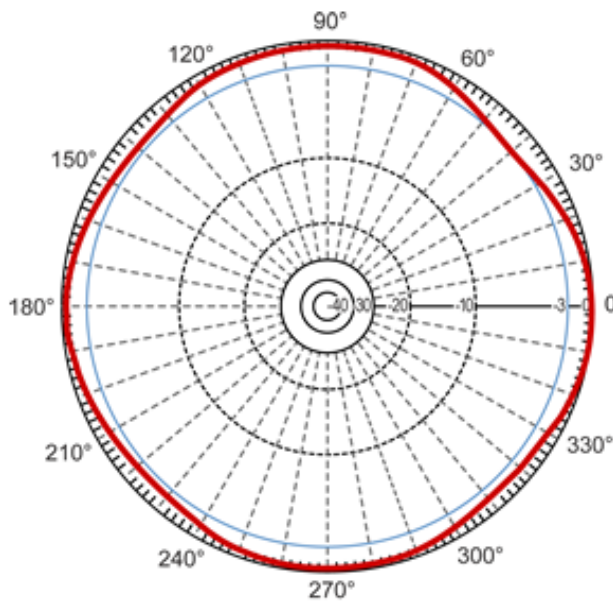


### Specifications

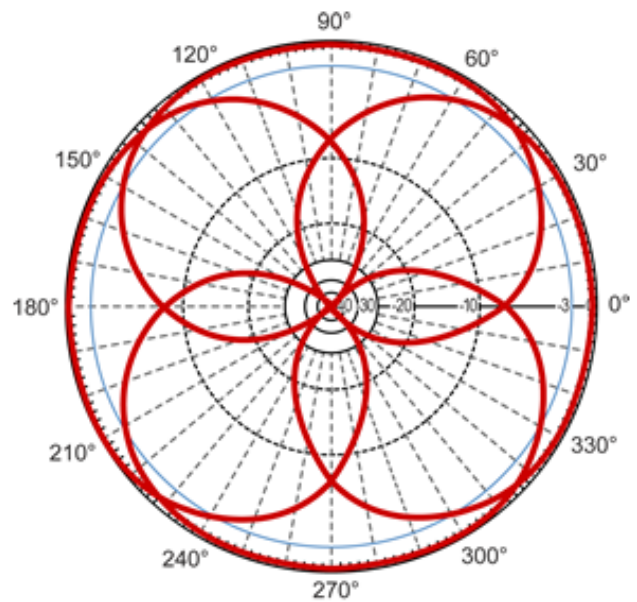
<b>Frequency</b>	5725 – 5850 MHz
<b>Antenna Gain</b>	17 dBi*
<b>Polarization</b>	Vertical
<b>Horizontal Beam Width</b> (Individual Array)	90°
<b>Vertical Beam Width</b> (Individual Array)	8°
<b>Lightning Protection</b>	DC Ground
<b>Power Rating</b> (Individual Antennas)	100 Watts
<b>Antenna Radome Material</b>	UV Resistance PVC
<b>Array Mounting System Material</b>	Stainless Steel
<b>Mounting</b> (Round Mast)	1¼ to 2 inch (31.7 to 50.8 mm) diameter
<b>Dimension</b> **(O.D. Panels Fully Retracted)	20.7" H x 16.5" O.D (525.7 H x 419.1 O.D. mm)
<b>Weight</b>	27.4 lbs. (12.4kg)
<b>RoHS Compliant</b>	Yes

\*Antenna gains specified when sectors are individual fed.

## RF Antenna Gain Patterns



**Single Fed Array**



**Individual Fed Array**