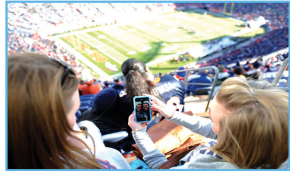


## Small Cell & High Density WiFi



### THE MOBILITY CHALLENGE - MAXIMIZING HIGH DENSITY WIRELESS NETWORK CAPACITY & COVERAGE

Consumer and business demand for high-speed wireless access driven by tablets, smart phones and bandwidth intensive video and content rich applications has created the need for greater capacity in operator controlled wireless networks. As the user base grows and new types of network enabled devices and applications come online consumer and business users depend on and demand high performance, high capacity wireless service. For in-building and entertainment venue applications with a high concentration of wireless device users Laird meets and exceeds the mobility challenge with a broad portfolio of performance engineered in-building and outdoor antenna solutions designed to deliver increased, highly reliable wireless network capacity and coverage.

### 3G/4G & LTE SOLUTIONS



**CFS69271**

Indoor Ceiling Surface  
1-Port SISO Omni  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 3 dBi Gain  
1710 - 2170 MHz 3 dBi Gain  
2500-2700 MHz 4.5 dBi Gain



**OC69271**

Indoor / Outdoor  
1-Port SISO Omni  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 1.5 dBi Gain  
1710 - 2170 MHz 3.5 dBi Gain



**CMS69373**

Indoor Ceiling  
1-Port SISO Omni  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 1 dBi Gain  
1710 - 2170 MHz 3 dBi Gain



**CMS69373P**

Indoor Ceiling  
1-Port SISO Omni  
Low PIM <153 dBc  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 2.6 dBi Gain  
1710 - 2170 MHz 3.5 dBi Gain



**PAV69278I**

Indoor  
1-Port SISO Directional  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 8 dBi Gain  
1710 - 2170 MHz 8 dBi Gain



**PAV69278PI**

Indoor  
1-Port SISO Directional  
Vertical Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 8 dBi Gain  
1710 - 2170 MHz 8 dBi Gain



**CMD69273**

Indoor Ceiling  
2-Port MIMO Omni  
Vertical & Horizontal Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 3 dBi Gain  
1710 - 2170 MHz 5 dBi Gain



**CMD69273P**

Indoor Ceiling  
2-Port MIMO Omni  
Low PIM < 154 dBc  
Vertical & Horizontal Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 3 dBi Gain  
1710 - 2170 MHz 5 dBi Gain



**PAS69378**

Indoor/Outdoor  
2-Port MIMO Directional  
Slant ± 45 degree Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 7.5 dBi Gain  
1710 - 2170 MHz 9.5 dBi Gain



**PAS69378P**

Indoor/Outdoor  
2-Port MIMO Directional  
Low PIM <- 151 dBc  
Slant ± 45 degree Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 8.7 dBi Gain  
1710 - 2170 MHz 9.7 dBi Gain



**SL69273PT**

Indoor Ceiling  
3-Port Omni  
Vertical Pol  
698-960 / 1710-2700 MHz  
Port 1 698-806 / 1710-2170 - 3 dBi Gain  
Port 2 824-894 / 1850-1990 - 2 dBi Gain  
Port 3 2500-2700 MHz 2 dBi Gain



**CMX69273P**

Indoor Ceiling  
2-port MIMO Omni  
Low PIM <-154 dBc  
Vertical & Horizontal Pol  
698-960 / 1710-2700 Mhz  
698-960 MHz 4.1 dBi Gain\*  
1710 - 2700 2.9 dBi Gain\*

\*Average typical gain across frequency band



**CMQ69273P**

Indoor Ceiling  
4-port MIMO Omni  
Low PIM <-153 dBc  
Vertical & Horizontal Pol  
698-960 / 1710-2700 MHz  
698-960 MHz 4.3 dBi gain\*  
1710 - 2700 MHz 4.7 dBi gain\*

\*Average typical gain across frequency band

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# Solution Brief

## Small Cell & High Density WiFi

### HIGH DENSITY WiFi SOLUTIONS



**S24493TS**

Indoor Ceiling-Surface  
3-Port MIMO Omni  
2400-2500 MHz  
4900-5875 MHz  
2.x GHz 3 dBi Gain  
5.x GHz 4 dBi Gain



**OP51508T**

Indoor-Outdoor IP-67  
3-Port MIMO Omni  
5150-5875 MHz  
8 dBi Gain



**CMM24513S4**

Indoor Ceiling  
4-Port MIMO Omni  
2400-2500 MHz  
5150-5875 MHz  
6 dBi Gain



**S2451DBT**

Indoor Ceiling  
6-Port MIMO Omni  
3 Ports - 2400-2500 MHz  
3 Ports - 5150-5875 MHz  
2 dBi Gain



**OP24516SX**

Indoor-Outdoor IP-67  
6-Port MIMO Omni  
3 Ports - 2400-2500 MHz  
3 Ports - 5150-5875 MHz  
2.x GHz 4 dBi Gain  
5.x GHz 6 dBi Gain



**OP24516DS**

Indoor-Outdoor IP-67  
6-Port MIMO Omni  
2400-2500 MHz  
5150-5875 MHz  
2.x GHz 4 dBi Gain  
5.x GHz 6 dBi Gain



**S24517PT**

Indoor-Outdoor IP-67  
Directional  
3-Port MIMO  
2400-2500 MHz  
5150-5875 MHz  
2 Ports Vertical Pol  
1 Port Horizontal Pol  
2.x GHz 8 dBi Gain  
5.x GHz 10 dBi Gain



**PDM24519**

Indoor-Outdoor IP-67  
Directional  
3-Port MIMO  
2400-2500 MHz  
5150-5875 MHz  
2 Ports Vertical Pol  
1 Port Horizontal Pol  
2.x GHz 8 dBi Gain  
5.x GHz 9 dBi Gain



**S245112PT**

Indoor-Outdoor IP-67  
Directional  
3-Port MIMO  
2400-2500 MHz  
5150-5875 MHz  
2 Ports Vertical Pol  
1 Port Horizontal Pol  
2.x GHz 10.9 dBi Gain  
5.x GHz 13.5 dBi Gain



**PDM245115H**

Indoor-Outdoor IP-67  
Directional  
4-Port MIMO  
2400-2500 MHz  
5150-5875 MHz  
2 Ports Vertical Pol  
2 Ports Horizontal Pol  
2.x GHz 14 dBi Gain  
5.x GHz 14.5 dBi Gain



**PVM245110**

Indoor - Outdoor IP67 3-port MIMO  
Directional 3-port Vertical Pol  
2400-2500 Mhz  
5150-5900 MHz  
2.X GHz 9 dBi Gain\*  
5.X GHz 8.5 dBi Gain\*  
Average typical gain across frequency band

### LAIRD IS THE GLOBAL LEADER IN PERFORMANCE ENGINEERED ANTENNA SOLUTIONS

Our proprietary design tools, RF expertise & manufacturing excellence provide commercial off-the-shelf (COTS) and custom solutions for WLAN, Telecom, Industrial, Commercial & Public Safety operation critical communications.

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