

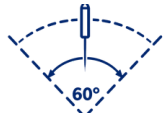
Antenna Selection Guide

A practical guide to defining requirements and selecting the right antenna configuration

1 What is the Application?

 Mobile / Vehicular	 Fixed Site / Infrastructure	 Private LTE / 5G / CBRS	 FWA / Rural Broadband	 Utility / SCADA / IoT	 Wi-Fi / Local Network	 Router / Gateway / CPE
---	--	--	--	---	--	---

2 What Directional Coverage?

 Omni-Directional • Low-Profile • Heavy-Duty • Integrated	 Directional • Directional/Panel • Sector	 Circular Polarized • Circular Polarization
--	--	---

3 What RF Functions are Required?

 Cellular LTE/5G/Sub-6	 CBRS C-Band	 Wi-Fi 2.4/5/6 GHz	 GNSS
DSRC/C-V2X/C-ITS/V2X	Public Safety / FirstNet / 4.9 GHz	ISM	RFID
What bands need coverage?		Single Port or MIMO?	

4 What Type of Installation?

 Vehicle Roof / Body	 Pole / Wall / Mast	 Cabinet / Nema Box	 Surface Mount
---	---	---	--

5 Connectors, Cables, and Environment Needs?

 Cable Type / Length / Loss	 Connector Type	 Environment & Durability	 Standard or Custom Configuration
---	---	---	---

Low-Profile Mobile Antennas

LTX - LTM - LTMW - LLP - SMG - SMW

Best for fleet, transit, public safety, routers, and compact multiband mobile installations.



Heavy-Duty Mobile Antennas

HD3 - HD4 - RM-WB1 - TMA-WB1

Rugged mobile solutions for demanding environments; foam-filled.



Omni Site / Base Station Antennas

OD - MOD - BS - BSLL

360° site coverage for fixed wireless, utilities, and infrastructure.



MIMO Omni Site Antennas

DOD Family

Rugged outdoor MIMO solutions for LTE and CBRS.



Directional / Panel Antennas

PND - Yagi - Log - EDX

Focused coverage for point-to-point links, fixed wireless, and other targeted connections.



Sector Antennas

PS Family

Controlled coverage for point-to-multipoint and private networks.



Integrated/Enclosure Antennas

BPN - LTBG - RM-WB - EM

Multi-radio and enclosure-friendly solutions for gateways, cabinets, and small nodes.



Circularly Polarized Antennas

HD7 - XW - TMA

For RFID, Wi-Fi, tactical mesh and other applications where orientation or multipath may affect link performance.



Additional Antenna Solutions

Mobile whips (quarter-wave, base-loaded, spring-loaded) • Device/Rubber-Duck • Ceiling-mount • Marine • Specialty/Custom

Speak to an Antenna Solutions Expert

Contact us today to discuss your wireless network needs and antenna requirements.



info@mobilemark.com

US Headquarters +1.847.671.6690

US/CA Toll Free +1.800.648.2800