



# Practical Tips for Mounting Wireless APs: Industrial, Warehouse, and Manufacturing Environments

Industrial and warehouse environments are designed for function—tall ceilings maximize storage, accommodate heavy machinery, and improve airflow. But these same features introduce unique challenges when deploying wireless access points (APs).

High mounting heights, metal shelving, and constantly changing layouts can degrade signal quality. Successful deployments require careful planning, ruggedized equipment, and secure mounting methods tailored to the realities of industrial operations.

## Key Considerations

- **Mounting Height:** Most industrial ceilings range 30–45 feet or higher. APs placed too high can cause weak signals at ground level. Lower APs closer to devices whenever possible.
- **Obstructions and Interference:** Machinery, shelving, and moving vehicles reflect and absorb wireless signals. Mount APs beyond these obstructions to maintain line-of-sight.
- **Ceiling Structures:** Heavy steel beams, mesh decking, or unusual ceiling materials require specialized hardware for secure, compliant mounting.
- **Ruggedization:** APs in industrial spaces must withstand dust, vibration, and temperature extremes. Choose enclosures and mounts rated for harsh conditions.
- **Future-Proofing:** As new Wi-Fi technologies emerge, choose mounting solutions that can accommodate larger access points and antennas, and support rapid technology upgrades.



*Oberon Model 1312-RAB*

## Best Practices

- Conduct predictive site surveys that account for height, inventory stacking, and interference.
- Use directional or high-gain antennas to beam signal down into work areas.
- Engage a wireless design professional to optimize AP density and placement.
- Run two Cat6A cables per AP to support high throughput and future upgrades.
- Protect cabling and APs inside industrial-grade, code-compliant enclosures.
- Plan for easy serviceability with minimal disruption to operations.

## Mounting Solutions That Work

### Oberon® Hi-Point Series (1312)

- Modular frames designed for ceiling, pole, or wall mounting
- Rugged aluminum construction withstands harsh environments
- Supports APs and antennas from all major vendors
- Multiple configurations (beam clamps, cable hangers, right-angle brackets) for flexible deployments

### Oberon® Hi-Point™ 905 Series + 39-905-HCPLATE

- Secure hanging conduit mount positions APs below obstructions
- Hinged, lockable cover protects APs and conceals cabling
- Recessed design creates a clean, professional appearance

### Oberon® Hi-Point™ 900-HC

- Secure conduit solution for open ceilings
- Hinged construction with snap-close cover simplifies installation
- Available in black or white for concealed, professional finishes



Oberon Model 1312-AM3



Oberon Model 39-905-HCPLATE

## The Bottom Line

In industrial and warehouse environments, mounting APs isn't just about coverage—it's about overcoming height, interference, and harsh conditions.

By planning carefully, lowering APs where possible, and selecting rugged, off-the-shelf mounting solutions like Oberon's, you can deliver reliable connectivity that powers automation, inventory tracking, and the mobile workforce.

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### QUICK TIPS

- Keep APs as close to end-user devices as possible
- Use directional antennas to focus coverage downward
- Run at least two Cat6A cables per AP for performance and future growth
- Plan for 2–4 year AP upgrade cycles to keep pace with technology