



Utility Antenna Solutions

Your Antenna Partner. We advise, design and deliver.

“Alpha Wireless was a trusted referral. We selected them based on their high level of expertise and their willingness to collaborate to solve our technical challenges.”

Chris Calhoun
Vice President of Technology and Customer Experience
Newport Utilities





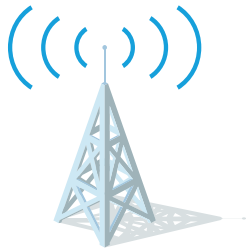
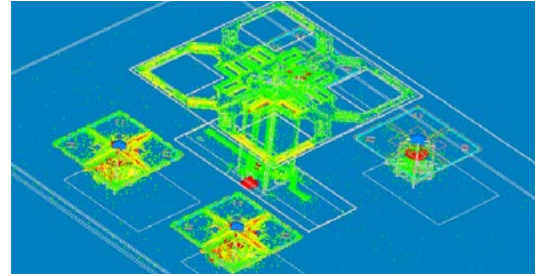
Your Utility Network Modernization Partner

Alpha Wireless designs antennas for utility private LTE networks. Our extensive portfolio includes dual-band and single-band antennas that are suitable for nearly any network configuration. The lead product in this family is our AW3874 dual-band panel antenna. It delivers high-performance 900 MHz and 3.5 GHz signals in one compact form factor.

Updating utility infrastructure is a challenge. Diverse networks, multiple operators and looming legislative pressures complicate matters. Yet modern digital infrastructure offers new use cases that greatly expand capabilities, improve security and increase reliability. The technical experts at Alpha Wireless have deep experience working with utilities. You can count on our technical experts to guide you through every phase of your network build.

Frequency Transparent Dipole Technology

The AW3874 delivers two signals of different frequencies with one antenna using our patent-pending Frequency Transparent Dipole Technology™ (FTDT). FTDT shields one frequency from another for excellent performance. Combining two frequencies on one antenna saves you on rent, installation and maintenance costs.



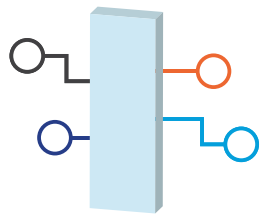
Private LTE

Private LTE gives you control over security, capacity and reliability. It also future-proofs your network. You can expand as demand grows and as technology changes. You no longer have to balance service levels between multiple networks, technologies and operators.

Multiple Use Cases, One Antenna

Using one antenna to carry 900 MHz and 3.5 GHz signals enables you to address multiple new and existing use cases at the lowest possible cost, for instance:

- SCADA
- Smart metering
- DA: Volt/VAR optimization
- Demand response management
- Video surveillance
- Drone monitoring
- Advanced fleet management
- Mobile workforce tracking



Broad Portfolio, Rapid Customization

Alpha Wireless offers one of the largest antenna portfolios in the industry for Private networks. Every network is different, however, so if we don't have what you need, we'll build it from whiteboard to prototype in 90 days.



Partnership

Having an experienced partner by your side helps you avoid the pitfalls of implementing new technology. We've been building antennas for wireless networks throughout the world for more than 15 years. We partner with you to deliver a network configuration with the highest performance and lowest TCO.



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AW3874-E-F – Multi-Band Panel

Frequency	896-960 MHz/3300-3800 MHz
Port	8
Beamwidth	65°
Gain	12/18 dBi
Tilt	T2°-T10°/ T0°-T10°

Dimensions: mm/(in) - 1000 (39.4) x 480 (18.9) x 115 (4.5) - (LxWxD)



AW3711-E-F – Narrow Beam CBRS Panel

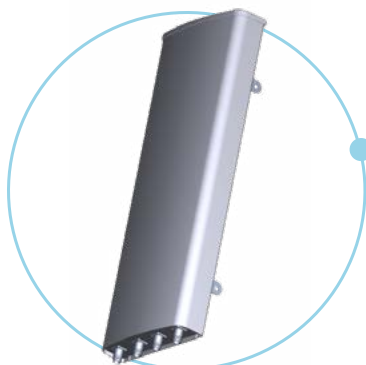
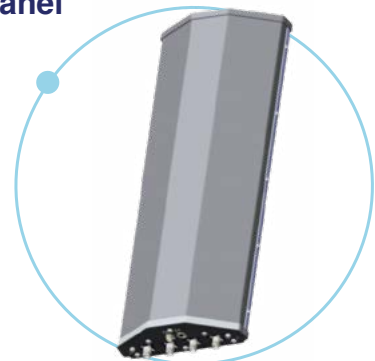
Frequency	3400-3800 MHz
Port	4
Beamwidth	33°
Gain	20.1
Tilt	T0°-T10°

Dimensions: mm/(in) 840 (32.7) x 322 (12.7) x 107 (4.2) - (LxWxD)

AW3795-E-F-M – Narrow Beam CBRS, Dual Sector Panel

Frequency	3400-3800 MHz
Port	4
Beamwidth	33°
Gain	20.2
Tilt	T0°-T10°

Dimensions: mm/(in) 855.5 (33.7) x 322 (12.7) x 115 (4.5) - (LxWxD)



AW3161 – Panel With MET or eRET Tilt

Frequency	3300-3800 MHz
Port	4
Beamwidth	65°
Gain	17.9
Tilt	T0°-T10°

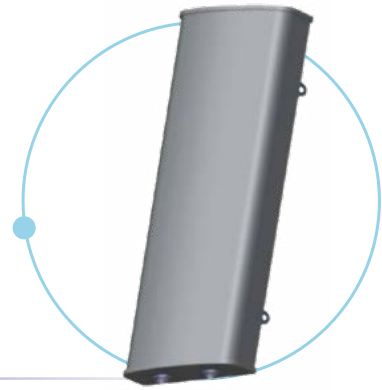
Dimensions: mm/(in) 785 (30.9) x 280 (11) x 85 (3.3) - (LxWxD)

FET: Fixed Electrical Tilt
 MET: Manual Electrical Tilt
 RET: Remote Electrical Tilt

AW3822-E-F – 2-Port 65° Panel

Frequency	698-960 MHz
Port	2
Beamwidth	65°
Gain	17.5
Tilt	T2°-T12°

Dimensions: mm/(in) 2700(106.3) x 420(16.5) x 165(6.5) - (LxWxD)



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