

VALULINE[®] 6-FT HX AND USX 6/11 GHZ DUAL-BAND, DUAL-POLARIZED ANTENNAS

Add more backhaul capacity and performance, not more antennas.

The volume of wireless network traffic is at an all-time high, prompting mobile network operators (MNOs) to invest in higher capacity technologies and strategies like cell densification and massive multiple-in/multiple-out (mMIMO). As a result, fronthaul capacity is growing while the microwave backhaul network strains to keep up. It's no secret that MNOs must ramp up their microwave backhaul capacity. The question is how, and at what cost.

Increasing backhaul capacity typically requires adding antennas to already-overcrowded towers. That means more weight and wind loading, higher leasing costs and, often, extra structural support. Long term, the more antennas and equipment you add to the tower today, the less available space you'll have to support tomorrow's growth.

The challenge, then, is adding more backhaul capacity without adding more antennas.

At ANDREW, we understand your backhaul dilemma and have developed a uniquely innovative solution



Meet the ValuLine[®] 6-ft HX and USX 6/11 GHz dual-band, dual-polarized antennas

ANDREW's antennas are specifically designed to solve your backhaul capacity challenges, today and tomorrow. As a high-performance dual-band/dual-polarization solution with excellent XPD performance, one antenna replaces as many as four standard microwave antennas. So, you can boost capacity, reduce CapEx and OpEx, and have more space for expansion. These antenna solutions are certified FCC category A and ETSI class 3 compliant closely meeting ETSI class 4, making them great options for reducing energy consumption and meeting sustainability goals.

And that's only part of the story.



Dual-pol, dual-band, one extraordinary antenna

The key to the HX and USX antennas are dual-band/dual-polarization design, which produces excellent gain and consistent radiation pattern envelopes (RPEs). One antenna does the work of two single-frequency/dual-pol antennas or four single-frequency/single-pol antennas. So, you save on tower leasing, maintenance, energy consumption and infrastructure requirements.

With 6 GHz and 11 GHz band support, the HX and USX antennas are ideal antenna is ideal for high-capacity long-haul applications and as backup for critical links.

Using our state-of-the-art antenna testing facility, ANDREW tests and plots actual measured patterns not just computer simulations.



Real performance, not simulated

Many OEMs rely on simulated performance data to engineer and specify their antennas. Not ANDREW.

We invested in a world-class testing facility enabling us to use actual performance data collected in real time and under load.

Tested performance characteristics include: XPD, gain, vertical/horizontal beamwidth, beam squint, tilt, F/B ratio, and first sidelobe level.



IMPROVE PERFORMANCE

- Boost capacity with dual-frequency/dual-polarization
- High gain, consistently accurate radiated pattern performance
- Excellent XPD minimizes interference
- Supports 6 GHz and 11 GHz for reliable long-haul connectivity
- Tested using actual generated patterns, not computer simulations
- Use as a backup for critical links to ensure service availability



REDUCE COSTS

- FCC Category A compliant
- ETSI Class 3 compliant meeting most class 4 specs
- Replace as many as four microwave backhaul antennas with one
- Fewer antennas reduce tower leasing cost and the need for modifications



SIMPLIFY AND SPEED DEPLOYMENT

- Deploy one antenna instead of multiple antennas
- Uses the same mount as all ANDREW 6-ft antennas

End-to-end support from a trusted partner

Our mission is to simplify and innovate everywhere it matters to help the mobile ecosystem build today's and tomorrow's sustainable networks—and to do it faster and smarter. As technologies evolve, standards advance, and demand keeps growing, our commitment to delivering highly customizable, cutting-edge macro cellular and small cell network infrastructure guides our innovation and manufacturing as it has for over 85 years.

To learn more about ANDREW's Microwave Antenna and solution offerings, contact your ANDREW representative

[ANDREW.COM](https://www.andrew.com) Visit our website or contact your local ANDREW representative for more information.

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