



## Introducing ValuLine® e-band antennas

Backhaul solutions

Increased network capacity from guaranteed compliance

# Thinking about the e-band spectrum for your network?

You're not alone. With the demand for increased capacity and scarcity of spectrum in traditional microwave frequency bands, many operators are analyzing the need to integrate e-band products into their backhaul network.

Microwave backhaul in the 71.0-86.0 GHz frequency band offers the potential to deploy gigabit microwave links, which can be achieved if the links are implemented in a way to avoid radio interference, even in new, and currently less congested regions.

CommScope has continued to improve its family of ValuLine® microwave antennas with the newest addition to this market leading range—the ETSI Class 3 and FCC-compliant E-band antennas.

## Specification compliance—guaranteed and controlled

E-band microwave antenna technology requires rigorous controls, in both design and manufacturing, to ensure compliance to the most exact specifications...not just on a "sample" basis but in volume production as well.

Developed by CommScope's microwave engineering team, then tested on the Microwave Compact Antenna Test Range (CATR) at the world-renowned Queen Mary University of London, these antennas can be demonstrated to be fully compliant with any published data—something that can't be said of all similar products on today's market.



## Manage your spectrum better and increase your network reliability

These new e-band antennas offer efficient utilization of available microwave spectrum, with the design ensuring minimized off-axis radiation, as defined by the requirements of regulatory bodies such as ETSI and the FCC. All of this makes path co-ordination simpler, with more reliable links.

Due to the narrow radiation pattern envelope of these antennas, there's a potential to deploy parallel, independent links between individual nodes that can either provide a back-up or even double the capacity of a single network connection.

Simultaneous operation of parallel links will be possible only if antennas radiate minimal energy off-axis and are compliant to the specifications they claim to meet. We are confident of our antennas and we want you to be as well.

## Proven regulatory compliance for ease of network planning, implementation and operation

It's a fact—not all antennas on the market are fully compliant. And without this vital assurance, you could be taking some significant risks with substandard products.

Non-compliant antennas may:

- Cause interference within your network and with others
- Waste valuable microwave spectrum
- Reduce the capacity of your links
- Put you at risk of loss of licenses and possible prosecution

# Go to market faster with a reliable solution

The 80 GHz antennas are designed to integrate with e-band equipment developed, or under development, by most of the world's leading radio manufacturers.

Plus, these antennas offer the highest level of performance and quality you've come to expect from ValuLine®.

- Designed tough to withstand extreme environments over time yet look aesthetically pleasing on the tower.
- Built using carefully selected raw materials to ensure maximum product life—further reducing maintenance and replacement costs.
- Meet the toughest global standards and environmental requirements.
- Compliant with the most stringent radiation patterns

## ValuLine e-band antennas: It all adds up to lower total cost of ownership.

You're always thinking ahead of trends and around challenges. Here at CommScope, we're always thinking, too—about how we can deliver more quality, reliability and expertise to help your network operate at top performance longer.

That's why all of our ValuLine antennas, part of our Andrew® portfolio, are designed and manufactured to meet the toughest standards—yours and ours.

Think e-band.

Think CommScope.

For more information, please contact your local CommScope sales representative, email us at [mws@commscope.com](mailto:mws@commscope.com) or visit us at <http://www.commscope.com/Andrew>.

## Smart business decisions begin with the right conversation



Making decisions is what you do. That's why you understand the importance of having the big conversations with the right people—the ones who know your industry, the challenges you must overcome, and the best ways to get there. It's what drives fresh perspectives... inspires creative thinking...and fuels visionary innovation.

This is what CommScope aspires to be for you.

We understand that it's not just about buying microwave products. It's about investing in quality and reliability while lowering total cost of ownership. It's about trust. It's about a conversation between you and a proven industry expert who understands your challenges from the inside out because we've been there, through every evolution, for more than 70 years. We're experienced. Established. Ready for the long haul.

And with four strategically-located manufacturing facilities, we're everywhere you need us to be. We believe that having a presence the world over is like having a footprint in every culture. It's a mindfulness of people and place that resonates across borders, across continents. It helps shape our perceptions so that, no matter where you are, we're speaking your language. So you can have more of the big conversations—asking questions like, "What is tomorrow's evolution?" and, "How can I prepare for it today?"

Of all the decisions you have to make, choosing the right industry expert should be an easy one.

Think about it. Let's have a conversation.

Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.



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