



ValuLine® and ValuLine+ microwave antennas:

Your strategic advantage in microwave backhaul

POWERED BY



Network demand keeps growing— how are you keeping up?

The answer isn't just another microwave antenna—it's a new backhaul strategy

More customers using more devices to consume more data all add up to more backhaul demand. Wireless operators are working hard to keep up, but to succeed in the long term, they need more than only additional microwave antennas. Instead, they need a strategy to help them get ahead of demand and plan for the future—a strategy they can afford. CommScope and our Andrew® family of microwave antenna solutions can be the foundation of your winning strategy.

ValuLine®: The trusted name for performance and value

One of the most trusted terrestrial microwave solutions in the industry, ValuLine is known for delivering exceptional RF performance, reliability, durability and value in total cost of ownership. ValuLine antennas are available in most industry-standard EIA and IEC flange types as well as customized antennas that can integrate directly with radio outdoor units from a variety of leading manufacturers.



performance +value



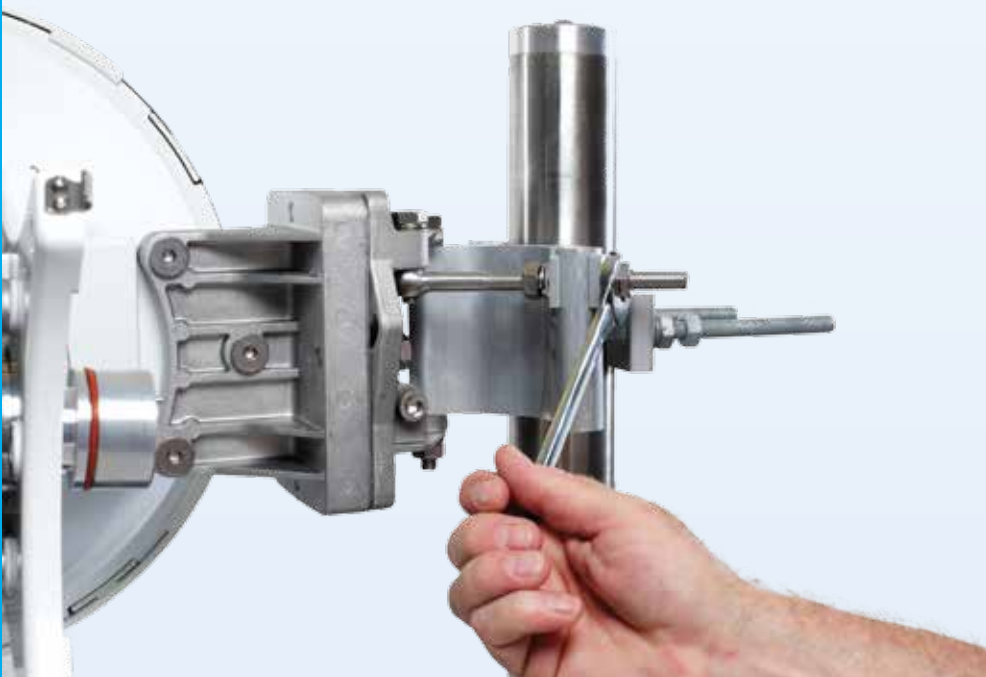
Valuline provides a solution for virtually every application or challenge:

- Ideal for systems operating between 6 GHz and 80 GHz
- Available in single- and dual-polarized configurations
- Offered in a range of sizes from 0.2 m (8 in) to 1.8 m (6 ft) in diameter
- Low-profile design for reduced windload and improved aesthetics
- Designed to meet stringent ETSI and FCC regulatory specifications

Valuline performance comes with significant CapEx and OpEx savings:

- Fast, easy installation and alignment
- Short lead times due to CommScope's global manufacturing presence
- Reduced shipping costs due to lighter weights and small-pack shipping
- Exceptional durability reduces truck rolls and extends operational life
- Efficient operation and low side lobes for more efficient use of spectrum and maximization of data throughput
- One of the industry's best manufacturer warranties for extra confidence

With many cost-effective options, Valuline is the smart way to build out your microwave backhaul strategy. In addition, because each Andrew component is precisely engineered to function seamlessly with other Andrew components, you can rest assured your backhaul network will deploy quickly and smoothly.



Complete e-band compliance

Microwave backhaul in the 71.0 GHz to 86.0 GHz frequency band offers the potential to deploy gigabit microwave links. However, to achieve this, the links must avoid radio interference—even in less congested regions.

CommScope's family of Valuline antennas now includes an option that gives you access to this exciting new potential—our new ETSI Class 3, FCC compliant (0.6 m [2 ft] only) e-band antennas. Valuline e-band antennas are engineered to comply with strict regulatory controls governing off-axis radiation in a small form factor—letting you take advantage of microwave backhaul opportunities in unlicensed frequency ranges.

Global distribution, consistent quality

Valuline antennas are distributed from the Czech Republic, United States, India, Brazil, and Mexico so they're never far from your work site. And, because each location builds to CommScope's high standards and stringent quality control processes, you can count on getting the same consistent quality no matter where your network is.



ValuLine+

Go the extra mile with ValuLine+

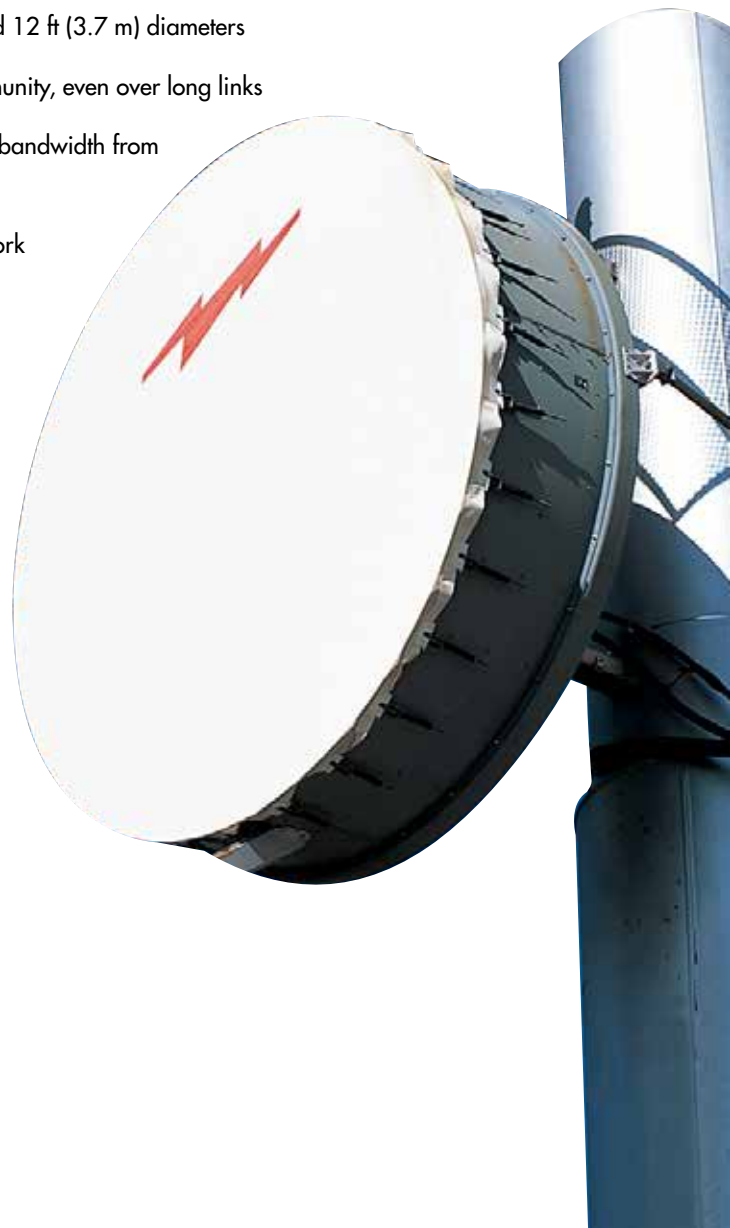
The newest addition to the ValuLine family of antennas is ValuLine+, CommScope's long-haul microwave backhaul solution. Built with the same cost-efficient design concept as our other ValuLine antennas, ValuLine+ helps your backhaul network go the extra mile—or farther.

ValuLine+ can help solve your biggest backhaul challenges.

Features include:

- Available in 8 ft (2.4 m), 10 ft (3.0 m) and 12 ft (3.7 m) diameters
- Low side lobes for higher interference immunity, even over long links
- Efficient spectrum use that squeezes more bandwidth from your frequencies
- Dual-polarized design for increased network capacity
- Two-piece reflector allows reduced transportation costs
- Survives wind speeds up to 200 km/h (125 mph) for long life and reliable operation even in extreme environments

With ValuLine+, longer links are within your reach—and an important, cost-effective part of your long-term microwave backhaul strategy.



ValuLine and ValuLine+ Part Number Matrix

ANTENNA TYPE/ DESCRIPTION	DIAMETER	FREQUENCY DESIGNATION				FLANGE	COLOUR	ANTENNA REVISION
VHLP	2	15	frequency band (GHz)	output	available diameters	2	WH	#
VHLP ValuLine High Performance, Low Profile, Single Polarised	200–0.2m (8in)	6W	5.925–7.125	WR137	1.0m, 1.2m, 1.8m, 2.4m ¹ , 3.0m ¹ , 3.7m ¹	1 - UG (13GHz and above only)	WH -White (RAL9010)	
VHLPX ValuLine High Performance, Low Profile, Dual Polarised	1–0.3m (1ft)	7W	7.125–8.5	WR112	0.6m, 1.0m, 1.2m, 1.8m, 2.4m ¹ , 3.0m ¹ , 3.7m ¹	2 - PBR (7GHz and above only)	GR - Grey (RAL7035)	
VHPX ValuLine+ High Performance, Dual Polarised	2–0.6m (2ft)	11W	10.125–11.7	WR90	0.6m, 1.0m, 1.2m, 1.8m	3 - UBR (7GHz and above only)		
	800–0.9m (2.6ft)	13	12.75–13.25	WR75	0.3m, 0.6m, 1.0m, 1.2m, 1.8m	4 - PDR (6, 7, 11GHz only)		
	3–1.0m (3ft)	15	14.4–15.35	WR62	0.3m, 0.6m, 1.0m, 1.2m, 1.8m	6 - CPR*G (6, 7, 11GHz only)		
	4–1.2m (4ft)	18	17.7–19.7	WR42	0.3m, 0.6m, 1.0m, 1.2m, 1.8m			
	6–1.8m (6ft)	23	21.2–23.6	WR42	0.2m, 0.3m, 0.6m, 1.0m, 1.2m, 1.8m			
	8–2.4 m (8ft)	26	24.25–26.5	WR42	0.2m, 0.3m, 0.6m, 1.0m, 1.2m			
	10–3.0 m (10ft)	28	27.5–29.5	WR28	0.2m, 0.3m, 0.6m			
	12–3.7 m (12ft)	32	31.8–33.4	WR28	0.3m, 0.6m			
		38	37.0–40.0	WR28	0.2m, 0.3m, 0.6m			
		42	40.5–43.5	Custom	0.3m, 0.6m			
		80	71.0–86.0	Custom	0.3m, 0.6m			

¹ ValuLine+ antenna - only available in PDR and CPR*G flanges

* Integrated antennas will have a specific 3rd field - please contact your Account Manager for further details.



COMMSCOPE[®]
INFRASTRUCTURE ACADEMY

Get more insight into your infrastructure

CommScope Infrastructure Academy

We believe in sharing our expertise. That's why we offer instruction on all aspects of our solutions and the industries they support through the CommScope Infrastructure Academy. Our specialized courses can take you through the whole universe of network infrastructure, including the critical role of microwave backhaul.

As an online resource, the Infrastructure Academy is available whenever you are.

Visit www.commscopetraining.com to enroll.

The right solution starts with the right partner

CommScope has taken the long view on wireless communications for decades. To us, that's the only way to develop technology and build expertise that keeps our operator customers ahead of the curve—and ahead of the competition.

When operators face backhaul challenges

PartnerPRO[™] **NETWORK**

in controlling cost, improving capacity and simplifying complexity, CommScope has the solutions they need to make sure their backhaul network doesn't create an expensive and cumbersome bottleneck. Our Andrew microwave backhaul antenna solutions cover the full range of these challenges, with products that connect every part of your backhaul network, reliably and efficiently. That is CommScope's promise.

Let's have a conversation about your backhaul strategy—and how CommScope can make it work better for you.



We're proud to be a part of your network's story

Here at CommScope, we embrace our role as a trusted resource, partner and facilitator. We create the infrastructure that connects the world and evolves with every advance in technology. By investing all of our capabilities, resources, relationships and products into your toughest challenges, we continue our long history of solving problems together—paving the way for new ideas and fresh ways of thinking.

We're a trusted resource and partner around the world because we're invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure ... connect people and technologies across protocols, oceans and time zones ... and share what we learn along the way. We'll never stop connecting and evolving networks for the business of life at home, at work and on the go.

**This is our promise to you.
This is CommScope.**

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