



PrimeLine TowerBooster: 6GHz and 11GHz Dual-Band, Dual-Pol Microwave Antennas

Double or quadruple capacity on long-haul microwave links using a single, high-performance antenna

RFS 6 GHz and 11 GHz PrimeLine TowerBooster microwave antennas deliver the capacity and performance needed to backhaul large volumes of 5G data over long distance with low total cost of ownership. With support for horizontal and vertical polarization in each band, the PrimeLine TowerBooster antennas:

- **Double capacity** compared to single-band, dual-polarized microwave antennas
- **Quadruple capacity** compared to single-band, single-polarized microwave antennas

One-for-one antenna replacement minimizes costs

RFS 6 and 11GHz dual-band microwave antennas can be used in new long-haul microwave installations and as replacements for single-band antennas anywhere in the world.

The antennas have the same footprint as RFS 6-, 8-, 10- and 12-foot single-band microwave antennas. As a result, microwave backhaul users can significantly increase link capacity with no need to purchase a second antenna, pay additional transportation costs, lease additional tower space or compromise on antenna performance.

Leveraging field-proven strength and reliability

To ensure superior performance and microwave link reliability, RFS PrimeLine TowerBooster dual-band antennas:

- **Provide ETSI Class 3** ultra-high performance
- **Meet FCC Part 101 Cat A standards** in the 6 and 11 GHz bands
- **Feature high cross-polarization discrimination (XPD) between the two bands** to support high-capacity cross-polarization interference cancellation (XPIC) and Co-Channel Dual Polarization (CCDP) applications
- **Maximize the effects of link diversity** in a single antenna to mitigate multipath fading on long-distance links and to increase link quality and availability

The antennas also incorporate RFS structural design features to provide outstanding mechanical reliability. They are available in standard and high wind, high ice* configurations to ensure reliable operation in severe environments and climates.



Use high-capacity microwave links to efficiently and cost effectively backhaul large volumes of 5G data beyond urban environments

Exclusive Features and Benefits

RFS can help overcome the challenges of 5G backhaul

- **Two bands with two polarizations in each band**
Significantly increases microwave backhaul capacity
- **ETSI Class 3 and FCC Part 101 Cat A compliance**
Ensures ultra-high antenna performance
- **Available in 6-, 8-, 10- and 12-foot sizes**
Increases capacity without increasing footprint
- **High cross-polarization discrimination (XPD) and frequency diversity**
Reduces interference, improves signal quality
- **Available in standard and high wind, high ice configurations***
Increases reliability in severe conditions



Antenna Ordering Information*

Model Number	Diameter	Frequency	Polarization	Gain @mid band	XPD	ETSI class	FCC CAT	Flange			
DBUX6-W60W103ACC	1.8m/6ft	5.925 to 7.125GHz	Dual	39.3 dBi	36dB	3	101A	CPR137G			
		10.3 to 11.7GHz		43.8 dBi			101A	CPR90G			
DBUX8-W60W103ACC	2.4m/8ft	5.925 to 7.125GHz		41.7 dBi			101A/74A	CPR137G			
		10.3 to 11.7GHz		46.2 dBi			101A	CPR90G			
DBUX10-W60W103ACC	3.0m/10ft	5.925 to 7.125GHz		43.5 dBi			101A/74A	CPR137G			
		10.3 to 11.7GHz		47.9 dBi			101A	CPR90G			
DBUX12-W60W103ACC4	3.7m/12ft	5.925 to 7.125GHz		45.1 dBi			101A/74A	CPR137G			
		10.3 to 11.7GHz		47.9 dBi			101A	CPR90G			
DBUX6-W60W103ADB	1.8m/6ft	5.925 to 7.125GHz		Dual			39.3 dBi	36dB	3	101A	PDR70
		10.3 to 11.7GHz					43.8 dBi			101A	PBR100
DBUX8-W60W103ADB	2.4m/8ft	5.925 to 7.125GHz					41.7 dBi			101A/74A	PDR70
		10.3 to 11.7GHz					46.2 dBi			101A	PBR100
DBUX10-W60W103ADB	3.0m/10ft	5.925 to 7.125GHz	43.5 dBi		101A/74A	PDR70					
		10.3 to 11.7GHz	47.9 dBi		101A	PBR100					
DBUX12-W60W103ADB	3.7m/12ft	5.925 to 7.125GHz	45.1 dBi		101A/74A	PDR70					
		10.3 to 11.7GHz	47.9 dBi		101A	PBR100					
DBUX6-W60W103ACCSQ1E*	1.8m/6ft	5.925 to 7.125GHz	Dual		39.3 dBi	36dB	3			101A	CPR137G
		10.3 to 11.7GHz			43.8 dBi					101A	CPR90G
DBUX8-W60W103ACCSQ1E*	2.4m/8ft	5.925 to 7.125GHz			41.7 dBi					101A/74A	CPR137G
		10.3 to 11.7GHz			46.2 dBi					101A	CPR90G
DBUX10-W60W103ACCSQ1E*	3.0m/10ft	5.925 to 7.125GHz		43.5 dBi	101A/74A			CPR137G			
		10.3 to 11.7GHz		47.9 dBi	101A			CPR90G			
DBUX12-W60W103ACCSQ1E*	3.7m/12ft	5.925 to 7.125GHz		45.1 dBi	101A/74A			CPR137G			
		10.3 to 11.7GHz		47.9 dBi	101A			CPR90G			

Notes: Specifications are subject to change without notification | Consult RFS for other flange combinations and options

* High wind high ice models, only available in RFS North America

Place an order or request more information:
<https://info.rfsworld.com/contact-us>