E-Band Microwave Antennas for 71-86 GHz mmWave Frequencies

Increase 5G backhaul capacity and microwave link reliability in urban environments

To backhaul massive volumes of data through increasingly congested urban networks, mobile operators must be able to take full advantage of ultra-high-capacity E-band frequencies with no worries about interference.

Built to maximize E-band performance

RFS 1-ft and 2-ft E-band microwave antennas deliver on this requirement. They provide the rugged reliability and superior electrical performance mobile operators need to maximize E-band radio performance in 71-86 GHz millimeter wave (mmWave) frequencies. The antennas feature:

- Support for operational windspeeds of 250 km/h
- Super-high gain
- High cross-polar discrimination (XPD)
- High front-to-back ratio

Together, these antenna features allow mobile operators to increase 5G backhaul capacity and microwave link reliability in urban environments.

Ideal to increase link distance and QoS

The light, compact and low-profile 1-ft E-band antennas are ideal for use with the higher power E-band radios now available. With this combination, mobile operators can support longer distance E-band links with higher quality of service (QoS) anywhere in the world.

Simplicity and low TCO

The E-band microwave antennas also feature optimized packaging to reduce transportation fees and overall total cost of ownership (TCO) in deployments globally. In addition, antenna models available from Europe also feature design enhancements that further reduce TCO:

- Pre-assembled models make installation even faster and easier
- Alignment improvements simplify antenna adjustments in the field
- Support for single and dual polarization simplifies upgrades

The ultimate combination of mechanical and electrical performance for E-band

Exclusive Features and Benefits

Ultra-high E-Band capacity for 5G backhaul

- **71-86 GHz E-band frequency support**
  Increases link capacity
- **Operational windspeeds of 250 km/h**
  Increases link stability and reliability
- **Super-high gain, high XPD, high front-to-back ratio**
  Improves electrical performance, reduces interference
- **Compatible with high-power and dual carrier E-band radios**
  Increases link distance and QoS
- **Optimized packaging**
  Reduces transportation costs
- **Thousands of antennas deployed**
  Proves antenna value

Antenna Ordering Information*

Description	Model Number	Diameter	Frequency Range	Polarization	Regulatory Compliance
E-band 1ft integrated antenna	SC1-W800Axx	1ft / 0.3m	71 to 86 GHz	Single	ETSI Class 3
	SCX1-W800Axx			Dual	ETSI Class 3
	SB1-W800Exx			Single	ETSI Class 3 / FCC
	SBX1-W800Exx			Dual	ETSI Class 3 / FCC
E-band 2ft integrated antenna	SC2-W800Dxx	2ft / 0.6m	71 to 86 GHz	Single	ETSI Class 3 / FCC
	SCX2-W800Dxx			Dual	ETSI Class 3 / FCC

***Note:** Not available for remote mount

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