

## Advanced MIMO OFDM Radio

### CableFree Radio Antennas – 4.90-5.850 GHz 90° Sector Antenna MIMO 2x2 20dBi Overview



#### About Wireless Excellence

Founded in 1996 and with headquarters in Oxford UK, Wireless Excellence Limited is a leading designer and supplier of outdoor and indoor Broadband Wireless communication products.

With a complete range of solutions including Radio, Microwave, Millimeter-Wave, Free Space Optics, WiFi and 4G/5G/LTE, customers in over 80 countries have chosen Wireless Excellence as the “one stop shop” solution of choice for dependable wireless networking.

#### About Our OFDM Range

CableFree OFDM Radio solutions deliver the performance, reliable connectivity, and cost-effectiveness that are crucial to modern wireless broadband networks.

Our scalable wireless platform delivers superior performance even in demanding conditions, with the flexibility and features to enable a wide range of applications.

CableFree OFDM Radio technology combines the best hardware and software technology to ensure best possible network performance.

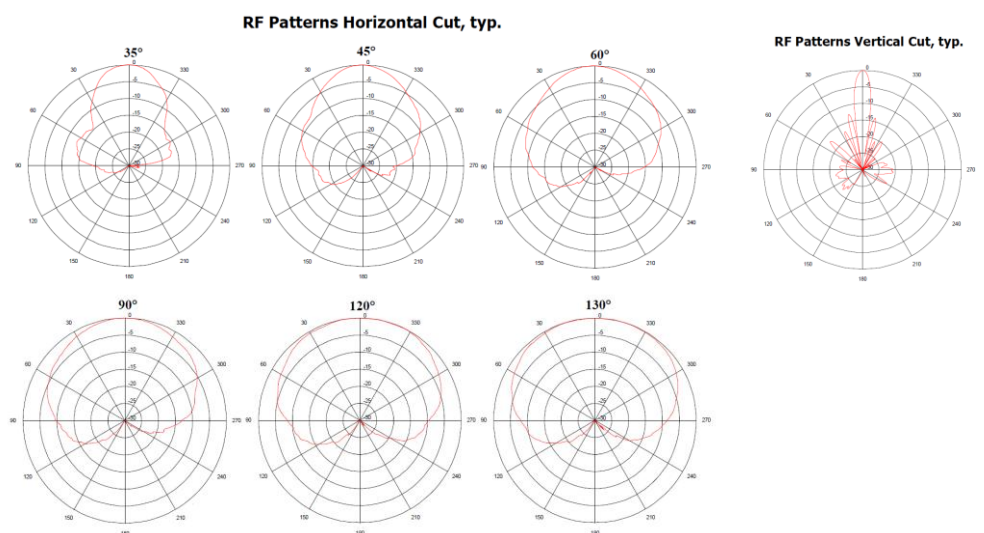
## Specifications

<b>Model</b>	<b>W5GS20D</b>
<b>Frequency Range</b>	<b>4900-5855 MHz</b>
<b>Bandwidth</b>	<b>950 MHz</b>
<b>Gain</b>	<b>2x20dBi</b>
<b>Horizontal Beamwidth</b>	<b>90°</b>
<b>Vertical Beamwidth</b>	<b>4°</b>
<b>Front-to-Back Ratio</b>	<b>&gt;20dB</b>
<b>Cross-Polar Isolation</b>	<b>&gt;25dB</b>
<b>Sidelobe Level</b>	<b>&gt;12dB</b>
<b>V.S.W.R</b>	<b>1.5:1 Typ, ≤1.7:1 Max</b>
<b>Nominal Impedance</b>	<b>50 Ω</b>
<b>Polarization</b>	<b>Horizontal and Vertical MIMO 2x2</b>
<b>Max. Power</b>	<b>100 W</b>
<b>Connector</b>	<b>N Female x2 or RP-SMA x2 (Factory option)</b>
<b>Dimensions</b>	<b>700 x 140 x 50 mm</b>
<b>Weight</b>	<b>3kg</b>
<b>Rated Wind Loading</b>	<b>201kph (125mph)</b>
<b>Mounting mast diameter</b>	<b>Ø30 to 70mm</b>

## Product Appearance



## RF Patterns



## RF Design & Engineering Support

Please contact Wireless Excellence before specifying antennas for your application.

Achievable range and data throughput will depend on site conditions such as line-of-sight, Fresnel zone clearance, buildings, and interference from other RF sources.

T: +44 (0870) 495 9169  
 E: sales@cablefree.net  
 W: www.cablefree.net

Wireless Excellence Limited  
 The Oxford Science Park,  
 G6, Magdalen Centre  
 Robert Robinson Avenue,  
 Oxford OX4 4GA