

## 11.5 dBd HD omni antenna 870 - 960 MHz, low PIM

### DESCRIPTION

- ▶ The 427x Series colinear antennas are designed for LTE/GSM applications where a durable and high performance antenna is required.
- ▶ The centre fed dipole design and feed network gives a stable radiation pattern across a wide bandwidth, allows tilted beam designs to be effectively employed without large pattern distortions.
- ▶ High quality materials and manufacturing techniques are employed to ensure that the antenna has excellent intermodulation performance & wide bandwidth characteristics for multi-channel trunked radio communication systems.
- ▶ The antenna has been designed to withstand lightning strike. A lightning finial (optional) can be fitted into the top cap via an M10 thread and an earth connection made to the antenna base or clamp.



### SPECIFICATIONS

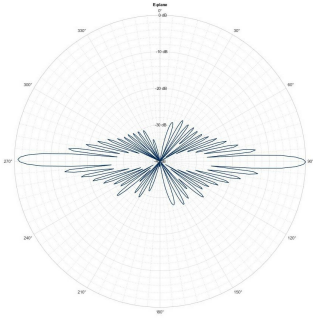
Electrical	
Frequency	870 - 960 MHz
Max. Input Power	600 W
Omni Deviation	< ± 1 dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	4° ± 1°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	11.5 dBd (13.7 dBi) Nominal
VSWR	< 1.5:1
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Lightning Protection	Lightning current handling capability: 200 kA According to EN 62305-1 (Test pulse 10/350 μs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	4270.11-915-Tx 7/16 DIN Female 4273.11-915-Tx 4.3/10 DIN Female
Materials	Antenna Base: Aluminium LM25 Shroud: GRP tube 128mm dia. Radiating element: Brass
Mounting Section	Flanged base with 6 hole fixing on 190.5mm PCD
Length	4570 mm / 180 in.
Wind Load	870 N (160km/h)
Weight	27.2 kg / 59.97 lb
Environmental	
Survival Wind Speed	240 km/h
Ingress Protection	IP56

### ORDERING

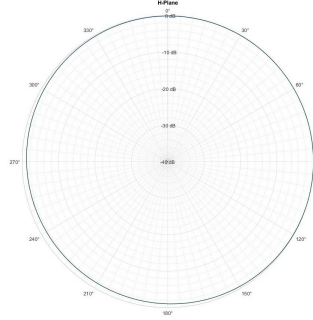
Model	Product No.	Description	Frequency
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T0	0° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T1	1° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T2	2° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T3	3° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T4	4° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4270.11-915-T5	5° Tilt, 7/16(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T0	0° Tilt, 4.3/10(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T1	1° Tilt, 4.3/10(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T2	2° Tilt, 4.3/10(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T3	3° Tilt, 4.3/10(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T4	4° Tilt, 4.3/10(f)	870 - 960 MHz
11.5 dBd HD omni antenna 740-870MHz, low PIM	4273.11-915-T5	5° Tilt, 4.3/10(f)	870 - 960 MHz
Accessories			
Pole Mount Adaptor	470.8100		
Guy Line Adaptor Kit	XSL9258350		
Lightning Finial Kit (150mm / 6")	XSL9256887		

DIAGRAM

E-PLANE, 915MHZ



H-PLANE, 915 MHZ



ACCESSORIES

<p>Pole Mount Adaptor <b>470.8100</b> for mounting antenna to 3" - 4.5" (76 - 114mm) diameter pole.</p> <p>Order antenna kit complete with bracket using part code <b>427x.11-915-Tx-BRKT</b></p>	<p>Guy Line Adaptor Kit <b>XSL9258350</b></p> <p>(Non-conductive guy lines are recommended)</p>	<p>Lightning Finial Kit <b>XSL9256887</b></p>
		



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