

## WX552003

The new enclosure WX552003 is the ideal solution for professional outdoor wireless applications.

It has been designed and manufactured with the outmost care using the best quality materials and components.

It features innovative characteristics that enhance the flexibility of the assembled product.

This enclosure is particularly suitable for WISP operating in wide area networks.



### Enclosure

The enclosure is made of UV Stabilized nylon with a built-in grounding system to facilitate the grounding of the electronic board.

The unit is waterproof (IP67) thanks to a moulded gasket.

The Ethernet connector is completely inserted into the case to guarantee maximum sturdiness.

A flexible cable gland avoids sharp bends on the external cable.

Knock-out "N" holes on one side of the case allow to easily add up to three additional antennas.

A lightweight, heavy duty mounting kit (anodized aluminium and stainless steel) allows vertical, horizontal and 45° polarization and a wide angle tilt.

### Ready for 802.11 n



### High performance antennas

An integrated high performance 20dBi antenna allows long distance links and signal stability.

The antenna's ground plate has four stand-offs for an easy and fast installation of the electronic boards. The position of the stand-offs fits perfectly Mikrotik RouterBoards.

A Pigtail with MMCX connector and 14cm RG178U cable is integrated with the antenna.

### Applications

5 Ghz WiFi, Hiperlan and WiMax  
Long range Point to Point solution  
CPE and HOT SPOT Applications

### Features and Benefits

Compact waterproof IP67 enclosure  
Integrated 5 GHz, 20 dBi antenna DC ground  
Includes integrated RJ45 Ethernet Connector with cable gland and integrated pigtail with MMCX connector  
Vertical, Horizontal and 45° polarization

## Electrical Specifications:

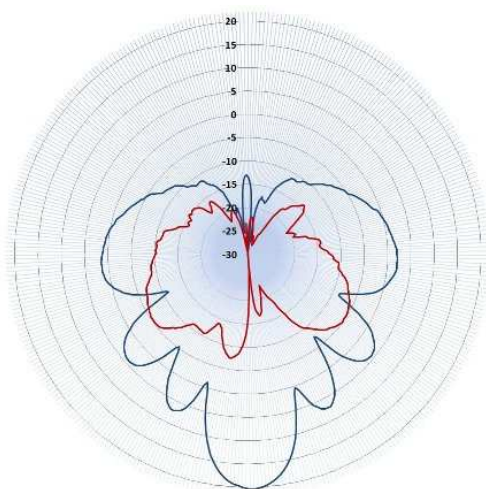
Frequency Range	5.15—5.85 MHz
Gain (Max)	20 dBi
VSWR	=<1,4:1 Typ. =<1,5:1 Max
Polarization	Linear: V, H, 45°
3dB Beamwidth	17° [Typ.]
Cross Polarization	-21dB (Max)
F/B Ratio	-30dB (Max)
Impedance	50 Ohm
Input Power	6W (Max)
Lightning	DC Ground (four point)
Connector Type	18cm Pigtail MMCX, Hirose
Regulatory Compliance	ETSI EN 32 085 V1.2.2, RoHS, CE

## Mechanical and environmental:

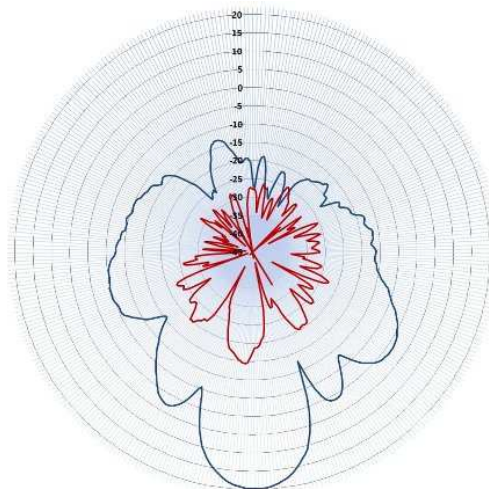
Water Resistance	IP67
Enclosure and Radome	Nylon (PA66) UV stabilized RAL7040
Antenna Backplane	Galvanized steel
Protection (IEC 529)	IP67
Operating Temp	-45°C to +70°C .(IEC 68-2-14)
Wind Survival	220 Km/h
Wind Load	0.06 m2
Solar radiation	(ASTM G53) 1.000 h
Length x Width x Depth	24cm x 24cm x 8cm
Weight	1,55 Kg
Pole Mount Diameter	60 mm (Max)

## Radiation Patterns

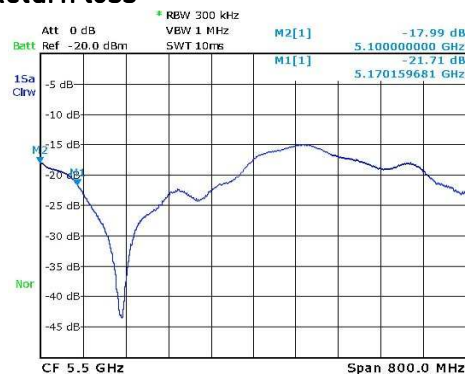
Azimuth (Gain, Xpol)



Elevation (Gain, Xpol)



## Return loss



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MikroTik



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