

## FEATURES

- A wideband 90 deg. sector antenna for a 5 to 6 GHz band
- Highly suppression of unnecessary sidelobes over and under horizon – „Reduced Sidelobes Level Antenna”
- A very good impedance matching for 5000 – 6000 MHz
- A flat gain accross band
- NO “SQUINT” ERROR
- Is equipped with a high quality mast mounting hardware allowing accurate elevation adjust **AND VERTICAL CORRECTION**
- Very rugged and completely weatherproof for extremaly long life in the harshest environments. The all stainless steel fasteners and aluminum bracket resist corrosion.



**TetraAnt\_5500/16/90 RSLL**

### Electrical Specifications\*

Frequency band	5000 - 6000 MHz @ VSWR<1.5
Nominal impedance	50 Ohm
VSWR	< 1.5
Gain	15.5dBi +/- 0.5 dB
Squint error	0 deg.
Polarization	Linear, vertical
Half Power Beamwidth - HPBW, E vector	90 deg.
Half Power Beamwidth - HPBW, H vector	8 deg.
Sidelobe suppression	>20dB
Frant/Back ratio	t.b.d
Crosspolar rejection	t.b.d
Lightning protection	DC grounded

### Mechanical specifications\*

Technology	microstrip
Input Connector	N, Female
Dimensions	475x90x40mm, with connector
Weight	0.35 kg, 0.4 kg with carton
Radome material	White UV resistant plastic
Base material	High strength aluminum alloy
Construction	Completely weatherproof
Mounting Kit	On kit, allows elevation adjust. Pipe diameter 20 – 50mm
Antenna Model Number	TETRAANT_5_16_19_V
Packing	Carton, 17x18x5 cm, 0.4 kg
Bulk Packing - xx PCY	Carton, xxxxxxxxxxxxxxxxxxxx

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## DESCRIPTIONS AND PATTERNS

The TETRAANT\_5500/16/90/V is the sector antenna. It utilize a Reduced Sidelobe Level technology "RSSL" that suppresses unnecessary sidelobes.

As a result all the microwave energy is pointed towards its target area – antenna is immune to the interference from other distant transmitters and provides outstanding data throughput.

It also have a very important feature – **no beam squint due to frequency change**. It means that the elevation of the mainbeam does not change regardless of the actual frequency. A number of designs shows this error. The result is decreasing of the data throughput or even loss of a link after frequency (channel) change.

The TetraAnt\_5500/16/90 has this error = 0 deg.



**TetraAnt\_5500/16/90 RSSL**

The TetraAnt\_5500/16/90 RSSL is also available in the OEM version. It is equipped with SMA/RP connector. It is also very well matched to the nominal impedance ( 50 ohm). The quantity of additional mounting bolts (stainless steel) depends on your needs. Example on the picture. About minimum qty, pricing and delivery time – mail at radio@elboxrf.com



**TetraAnt\_5500/16/90\_OEM RSSL**

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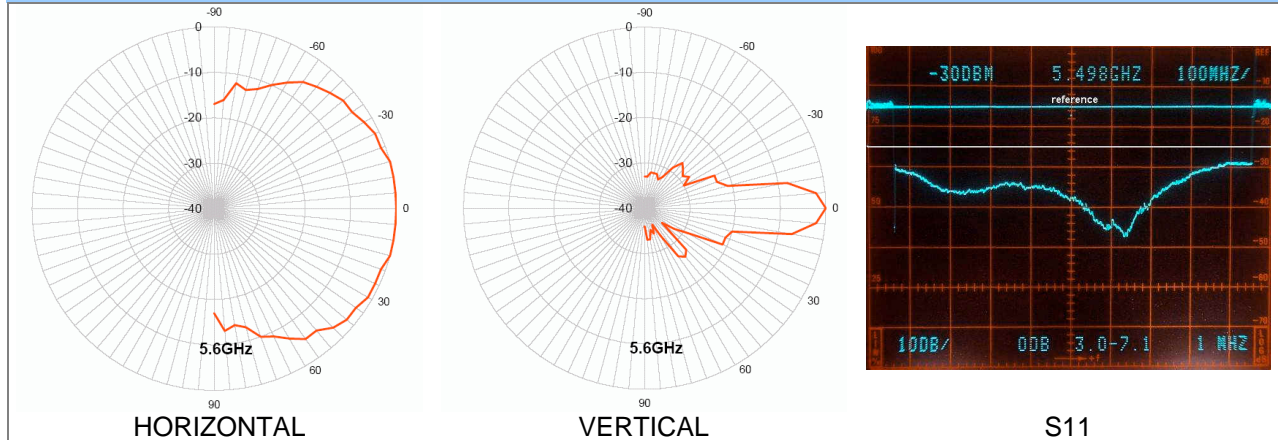
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### Gain(dBi) vs. Frequency\*

5.2 GHz	5.4 GHz	5.6 GHz	5.8 GHz
15 +/- 0.5dB	15.5 +/-0.5dB	15.5 +/- 0.5dB	15.5 +/- 0.5dB

### Patterns and impedance matching\*



\* All specifications are subject to change without notice

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