


<b>ANT S.r.l.</b> Via della Concordia, 4 – 37036 S. Martino B/A (VR) - Italia Tel. +39 045 8781380 Fax +39 045 8795335 e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a> <a href="http://www.antsrl.eu">www.antsrl.eu</a>	<b>DESCRIPTION</b>	
	<b>Multiband antenna with radiating element specific for each frequency band</b> suitable for applications 433-868/915MHz LoRa, LoRaWAN, Sigfox, ISM	

**Vardar-ST**

**P/N: A04-000**

**ELECTRICAL DATA**

Frequency range:	420-510 / 810-1000 MHz
Impedance:	50 Ω
V.S.W.R. at 433 MHz:	< 2 : 1
V.S.W.R. at 868/915 MHz:	< 2 : 1
Max Power:	15 W
Polarization:	Linear
Radiation:	Omnidirectional
Gain 433 MHz:	2.1 dBi
Gain 868/915 MHz:	2.1 dBi

**MECHANICAL DATA**

Dimensions (about):	210x100x30 mm
Connection:	cable cut (SMA or other on request)
Cable:	RG174 3 m (other on request)
Operating Temperature:	-40° / +80°C
Weight:	0.125 kg
Radome material:	Thermoplastic elastomer (over moulded antenna)
Radiating element material:	Stainless steel, brass
Bracket material:	Stainless steel



**Protection against oxidation:** the antenna is designed to be able to withstand the worst climatic conditions, and so that the oxidation of its parts is prevented with the plastic parts being made of raw materials resistant to external environmental agents.

**Protection against accidental hits:** the antenna is designed so that persons are protected from accidental hits against its projecting parts.

**RoHS directive:** The antenna complies with the RoHS Directive and its subsequent

**INSTALLATION INSTRUCTIONS**

Please use two Fischer plugs for Ø6 mm holes.

**WARNING:**

For a correct installation, please mount the antenna so that the whip is in vertical position and at least 5 cm apart from every metallic object and in vertical polarisation. The state performances have been tested in ideal conditions.

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## DESCRIPTION

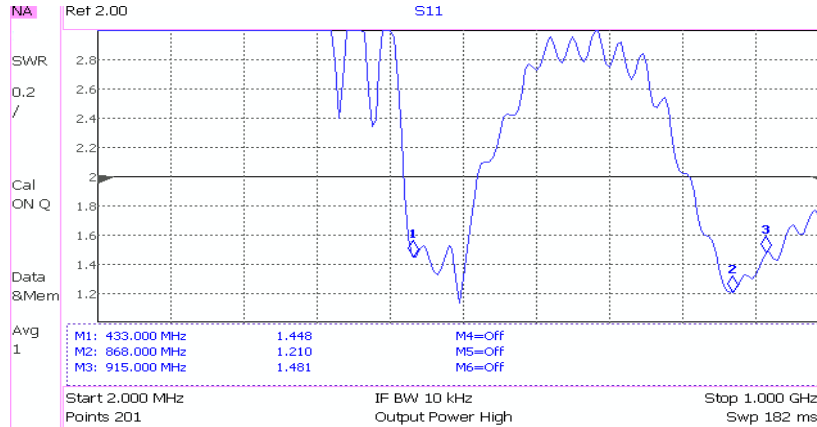
**Multiband antenna with radiating element  
specific for each frequency band**  
suitable for applications  
433-868/915MHz LoRa, LoRaWAN, Sigfox, ISM



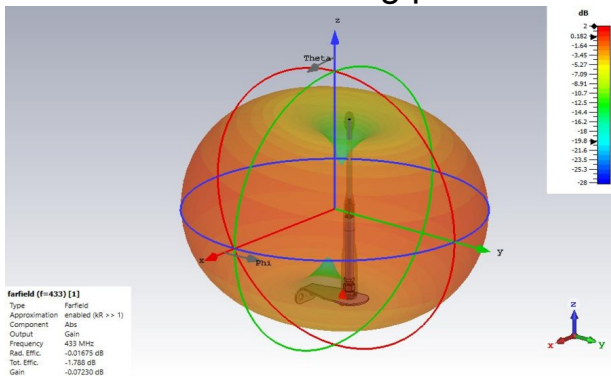
### Vardar-ST

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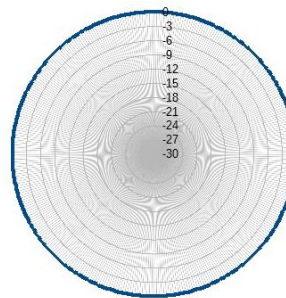
### V.S.W.R. (test with antenna installed on fiberglass pole)



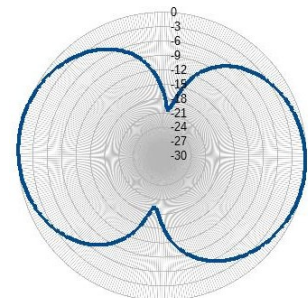
### 433MHz Radiating pattern



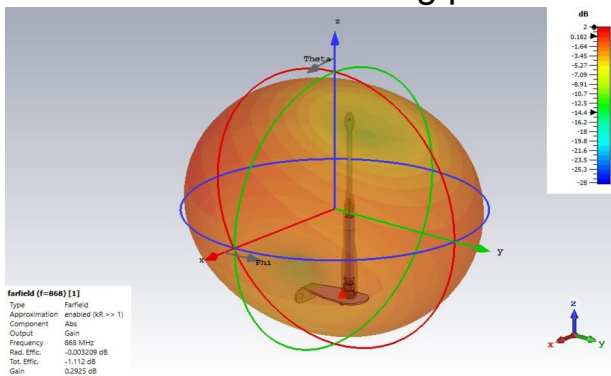
### H Plane



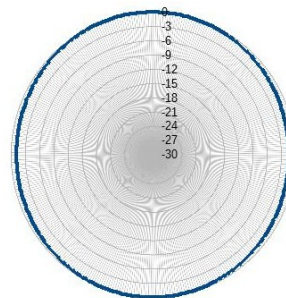
### E Plane



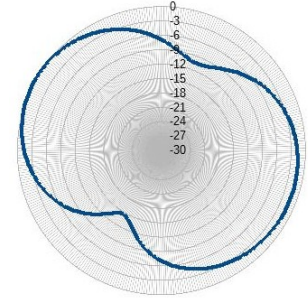
### 868/915MHz Radiating pattern



### H Plane



### E Plane



### ITS NAME:

The **Vardar** is a cold spring wind blowing from the northwest through the Vardar valley down to the Gulf of Thessaloniki in Greece. It forms when the atmospheric pressure over Eastern Europe is higher than over the Aegean Sea, mainly in winter. It is also called Vardarac.