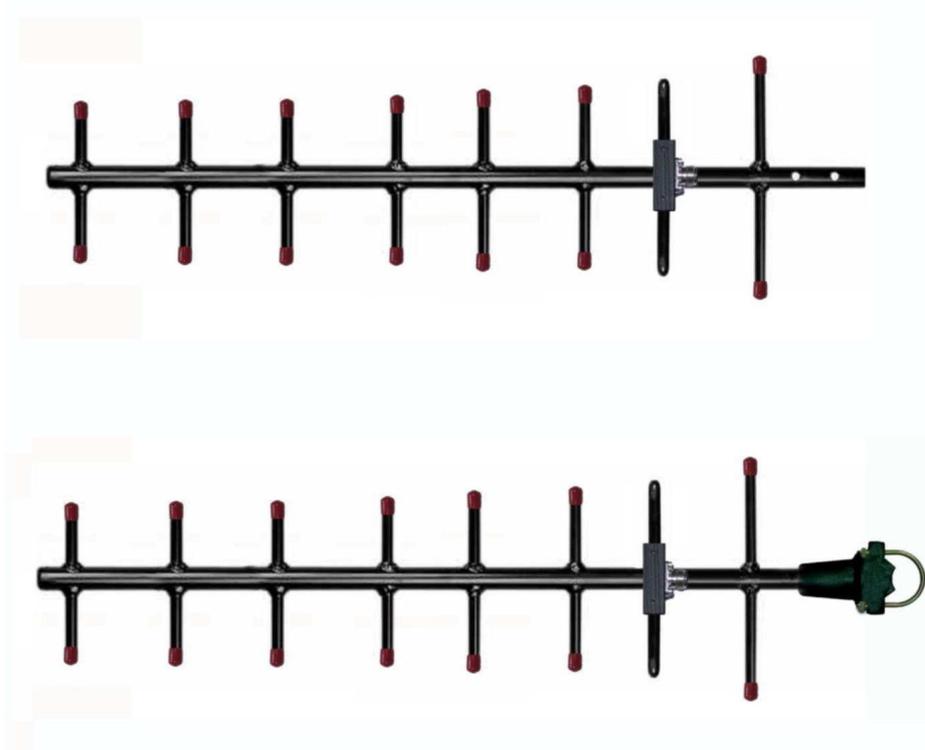


# Directional antenna

## BSD 400

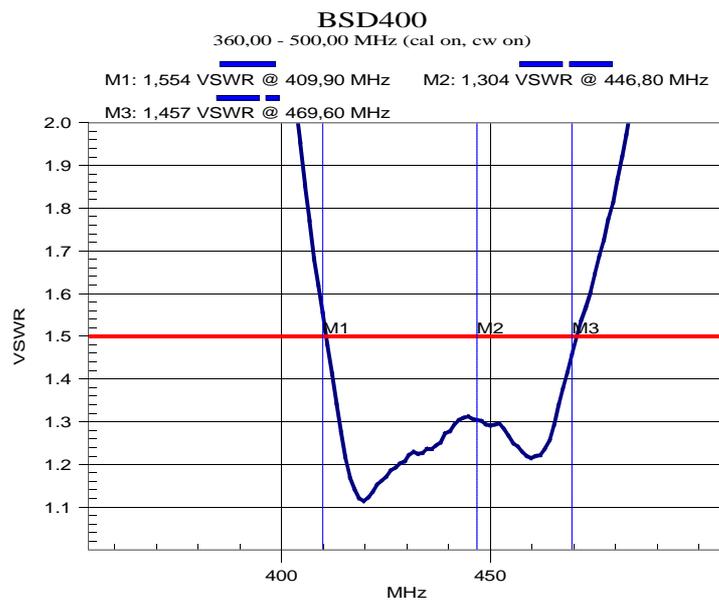


**The antenna designed to base stations in mobile radiocommunication networks and telemetry networks. The duraluminium welded construction is covered with powder varnish. The antenna is DC-grounded what ensures a resistance to all environmental conditions with a special consideration of highland installations, difficult-available high masts and unattended systems.**

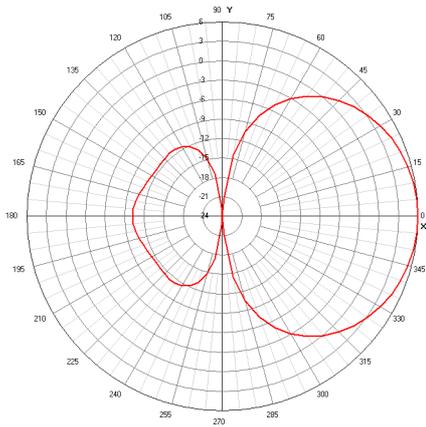
**The antenna is produced in versions consist of 2, 4 or 8 elements.**

**BSD-type antennas are applied to create antenna arrays consist of 2, 3 or 4 units, what enables to elastic form vertical radiation pattern. A single reflector enables the installation of the antenna on any distance from the mounting mast, without affecting the shape of the radiation pattern.**

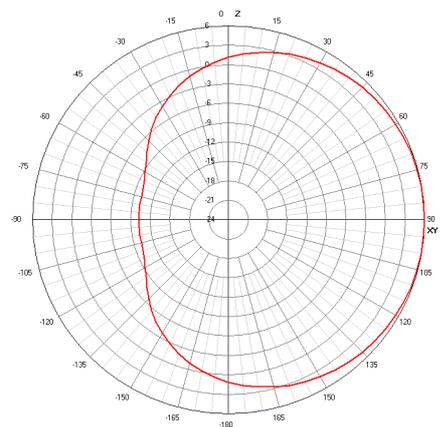
	<b>BSD 400-2</b>	<b>BSD 400-4</b>	<b>BSD 400-8</b>
<b>ELECTRICAL</b>			
<b>Gain</b>	6 dBi @ 433 MHz	7.5 dBi @ 433 MHz	10 dBi @ 390 MHz 12 dBi @ 433 MHz
<b>Radiation pattern</b>	directional		
<b>Impedance</b>	50 Ω		
<b>Antenna type</b>	2-element Yagi	4-element Yagi	8-element Yagi
<b>VSWR</b>	≤ 1.5		
<b>Frequency range</b>	390 – 550 MHz , depending on the performance		
<b>Bandwidth</b>	Versions for a bandwidth of 40 MHz		
<b>Maximum power</b>	150 W		
<b>Half-power beamwidth (for vertical polarization)</b>	E – 70° H – 150°	E – 70° H – 110°	E – 50° H – 70°
<b>Front to back ratio</b>	16 dB	20 dB	20 dB
<b>MECHANICAL</b>			
<b>Connector type</b>	N		
<b>Material</b>	Aluminium, powder painting		
<b>Polarization</b>	vertical / horizontal		
<b>Weight</b>	3.1 kg	3.4 kg	3.7 kg
<b>Lightning protection</b>	Galvanic at the antenna corpus		
<b>Total length</b>	650 mm	900 mm	1400 mm
<b>Packaging</b>	Carton box		
<b>Warranty period</b>	2 years		
<b>Wind speed</b>	45 m/s		
<b>CLIMATIC CONDITIONS</b>			
<b>Temperature range</b>	-40°C ÷ +70°C		
<b>Humidity</b>	≤ 100% at +40°C		



VSWR of the BSD 400  
BSD 400 – 2

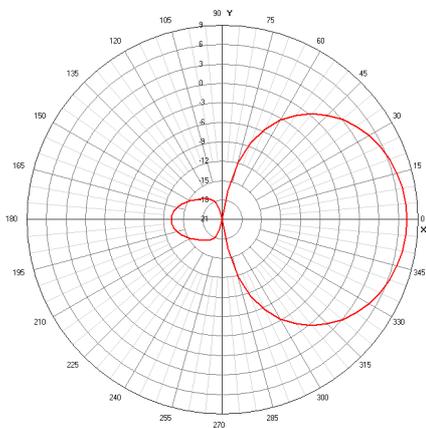


Vertical radiation pattern

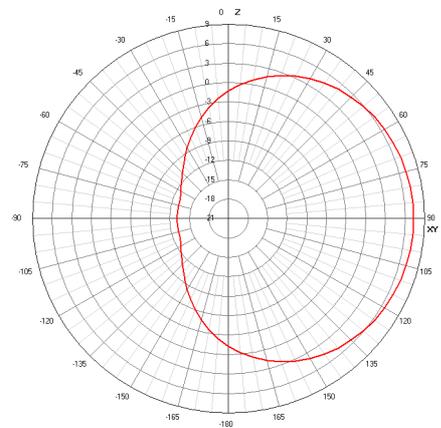


Horizontal radiation pattern

BSD 400 – 4

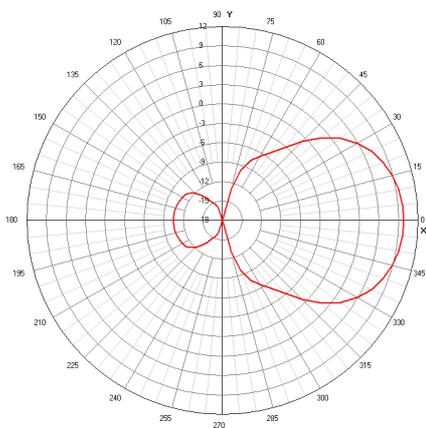


Vertical radiation pattern

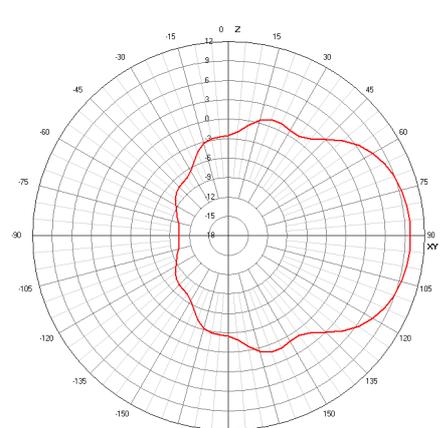


Horizontal radiation pattern

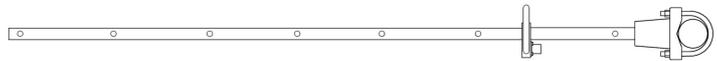
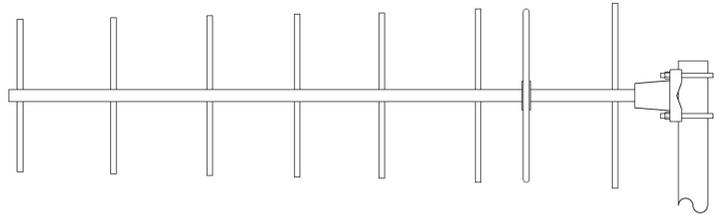
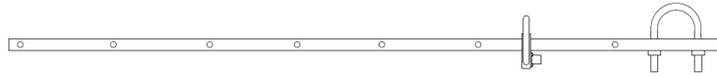
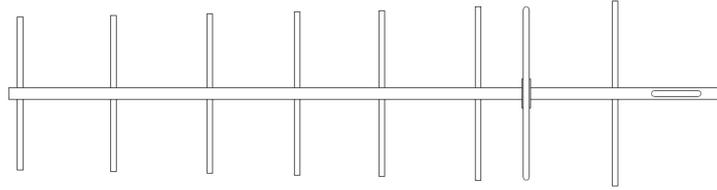
BSD 400 – 8



Vertical radiation pattern



Horizontal radiation pattern



The BSD 400 – 8 antenna



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