

Dual Polarized Switched Beam MIMO Antenna for 5G

SBA3438B-DP

The SBA3438B-DP is a switched beam antenna for the 5G 3.4 to 3.8 GHz frequency band providing output for dual $\pm 45^\circ$ slant polarizations to support MIMO usage. The antenna offers extremely fast beam steering capability to achieve optimal gain to the desired direction and avoid interference from and to unwanted directions (LPI/LPD). The antenna provides up to 20 sharp beams with a minimum of 18 degree beamwidth to cover the full 360 degree horizontal area. On top of sharp beam mode the antenna supports also wide and quasi-omni modes

- Dual $\pm 45^\circ$ slant polarizations to support MIMO usage
- Extremely fast beam steering to support 5G complex node and Mesh networks
- Optimized spectrum efficiency: antenna gain steered to the desired directions and interference minimized to and from unwanted directions



Product details*	
Frequency range	3400 - 3800 MHz
Polarization	$\pm 45^\circ$ slant polarizations
Antenna type	Switched beam antenna
Radiation pattern	Directional (see typical patterns on Page 2)
Gain (typical)	14 dBi
3 dB beamwidth, VP & HP	E-plane 15° , H-plane 25° (typical)
Sidelobe level (typical)	-12 dB
VSWR	≤ 2.5
Nominal Impedance	50 Ω
Power rating	10 W (CW)
Power supply	12 VDC (< 200 mA)
Beam switching speed	< 1 μ s
Standard color	Black
Radiator	20 x selectable dual polarized patch array element
Height	390 mm (including the mast mount adapter)
Diameter	370 mm
Weight	4.5 kg

Installation	
RF connection	2 x Female N-type connector
Power and control	See information on Page 3
Mounting	Mast mount adapters for 40-60 mm masts included

* More information on request

Order number	
SBA3438B-DP	Antenna as described above