

High Power Dual Band SBA for 2.4 and 5 GHz

SBA2456XDB

The SBA2456XDB is high power dual band steerable beam antenna covering the full 2.4 and 5 GHz frequency bands (WiFi). The antenna beam can be steered to achieve optimal gain to the desired direction and to avoid interference from unwanted directions. The antenna provides up to 24 sharp beams with a minimum of 20-degree beamwidth to cover the full 360-degree horizontal area. Its extremely fast beam switching ability makes the antenna suitable for UAV/drone detection and counter measures.

- High power rating – 100 W CW
- Sharp and omni beam modes available
- Fast beam switching by using RS-485 or Ethernet based communication



Product details*	
Frequency range	2400 - 2500 MHz and 5000 – 6000 MHz
Polarization	Nominally vertical
Antenna type	Steerable beam antenna
Radiation pattern	Directional and omni (Sharp and omni beam modes)
Gain (typical)	10 - 11 dBi @ 2.4 - 2.5 GHz 12 - 14 dBi @ 5.0 - 5.9 GHz
3 dB beamwidth (typical)	2.45 GHz: 45° (H-plane), 30° (E-plane) 5.8 GHz: 25° (H-plane), 13° (E-plane)
Sidelobe level (typical)	-12 dB (H-plane)
VSWR	≤ 2.5
Nominal Impedance	50 Ω
Power rating **	100 W (CW & Peak)
Power supply	19 – 32 VDC (<200 mA), MIL-STD-1275E
Beam switching speed	< 1 μs (see information on Page 3)
Standard color	Black
Radiator	Selectable patch array element, 24 elements
Height	446 mm (including the mast mount adapter)
Diameter	320 mm
Weight	4.9 kg

** Cold switching

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

* More information on request

Order number	
SBA2456XDB	Antenna as described above