

Small Dual Band SBA for 2.4 and 5GHz

SBA2456DB-S

The SBA2456DB-S is a small 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 10 sharp beams with a minimum of 40-degree beamwidth to cover the full 360-degree horizontal area. The antenna provides superior gain performance with low side lobe levels. Its extremely fast beam steering ability makes the antenna suitable for UAV/drone detection and counter measures.

- Beam steering in a compact form factor
- 10 sharp beams available
- Fast beam switching by using RS-422 based communication



Product details*	
Frequency range	2400 - 2500 MHz and 5000 – 6000 MHz
Polarization	Nominally vertical
Antenna type	Switched beam antenna
Radiation pattern	Directional (Sharp beam mode)
Gain (typical)	6 dBi @ 2.45 GHz 10 dBi @ 5.5 GHz
3 dB beamwidth (typical)	2.45 GHz: 70° (H-plane), 40° (E-plane) 5.5 GHz: 45° (H-plane), 20° (E-plane)
Sidelobe level (typical)	-12 dB (H-plane)
VSWR	≤ 2.5
Nominal Impedance	50 Ω
Power rating	10 W (CW)
Power supply	19 – 32 VDC (<200 mA), MIL-STD-1275E
Beam switching speed	< 1 μs
Standard color	Black
Radiator	Selectable patch array element, 10 elements
Height	190 mm
Diameter	170 mm
Weight	1.5 kg
Installation*	
RF connection	Female N-type connector
Power and control	10 PIN MIL-DTL-26482, Shell size 12
Mounting	4 bolt mounting to bottom plate

Order number	
SBA2456DB-S	Antenna as described above
SBA2456DB-S-W	Antenna with a mounting magnet *

* The above dimensions and weight do not take into account the magnet.