

# Steerable Beam Panel for 2.4 and 5GHz

## SBA2456DB-P90

The SBA2456DB-P90 is a dual band steerable beam panel 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 11 sharp beams with a minimum of 15-degree beamwidth to cover the 90-degree horizontal area. The antenna provides superior gain performance with low side lobe levels. Its extremely fast beam switching ability makes the antenna suitable for UAV/drone detection and counter measures.

- Beam steering in a compact form factor
- 11 sharp beams available



Product details*	
Frequency range	2400 - 2500 MHz and 5000 – 5900 MHz
Polarization	Nominally vertical
Antenna type	Switched beam antenna
Radiation pattern	Directional (Sharp beam mode)
Gain (typical)	12 dBi @ 2.45 GHz 16 dBi @ 5.5 GHz
3 dB beamwidth (typical)	2.45 GHz: 30° (H-plane), 30° (E-plane) 5.5 GHz: 15° (H-plane), 15° (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, 8 elements
Height	320 mm
Diameter	320 mm
Weight	1.8 kg
Installation*	
RF connection	Female N-type connector
Power and control	10 PIN MIL-DTL-26482, Shell size 12
Mounting	Mounting bracket for 50-60mm masts provided.
Order number	
SBA2456DB-P90	Antenna as described above