

High Power Dual Band SBA for 2.4 and 5.8 GHz

SBA2458XDB

The SBA2458XDB is a high-power dual band switched beam antenna that is particularly suitable for drone detection and jamming applications (WiFi bands). The antenna beam can be switched by remote control to achieve optimal gain and sensitivity to the desired direction and to avoid interference from unwanted directions (LPI/LPD). The antenna provides up to 24 sharp beams with a minimum of 20-degree beamwidth to cover the full 360-degree horizontal area.

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



Product details*	
Frequency range	2400 - 2500 MHz and 5700 – 5900 MHz
Polarization	Nominally vertical
Antenna type	Switched beam antenna
Radiation pattern	Directional and omni (Sharp and omni beam modes)
Gain (typical)	10 dBi @ 2.45 GHz 15 dBi @ 5.8 GHz
3 dB beamwidth (typical)	2.45 GHz: 45° (H-plane), 30° (E-plane) 5.8 GHz: 22° (H-plane), 15° (E-plane)
Sidelobe level (typical)	-12 dB
VSWR	≤ 2.5
Nominal Impedance	50 Ω
Power rating	100 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, 24 elements
Height	375 mm (including the mast mount adapter)
Diameter	320 mm
Weight	4.9 kg

Installation*	
RF connection	Female N-type connector
Power and control	Contact COJOT for mode information
Mounting	Mast mount adapter for 40-60 mm masts included

* More information on request

Order number	
SBA2458XDB	Antenna as described above
SBA2458XDB-F11	Antenna with olive drab camo color FS33070 (FED-STD-595)
SBA2458XDB-F12	Antenna with sand camo color FS33303 (FED-STD-595)