

# Dual Band Switched Beam Antenna for 2.4 and 5.8 GHz

## SBA2458DB

The SBA2458DB is a dual band switched beam antenna covering the 2.4 and 5.8 GHz frequency bands (WiFi). The antenna beam can be switched by remote control 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. The antenna provides superior gain performance with low side lobe levels. Its extremely fast beam switching ability makes the antenna suitable for complex node network in tactical communication.

- Great directivity with very low side lobe levels
- 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 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: 50° (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	20 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	4.6 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	
SBA2458DB	Antenna as described above
SBA2458DB-F11	Antenna with olive drab camo color FS33070 (FED-STD-595)
SBA2458DB-F12	Antenna with sand camo color FS33303 (FED-STD-595)