

# Dual Band Switched Beam Antenna for 2.4 and 5GHz SBA2456DB

The SBA2456DB is a dual band switched beam antenna covering the full 2.4 and 5 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 UAV/drone detection and countermeasures.

- 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 5000 – 6000 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<br>14 dBi @ 5.5 GHz   |
| 3 dB beamwidth (typical) | 2.45 GHz: 45° (H-plane), 30° (E-plane)<br>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             | 10 W (CW)   |
| Power supply             | 19 – 32 VDC (<200 mA), MIL-STD-1275E  |
| Beam switching speed     | < 1 μs (More information on request)  |
| Standard color           | Black   |
| Radiator                 | Selectable patch array element, 24 elements                                     |
| Height                   | 405 mm (including the mast mount adapter)                                       |
| Diameter                 | 320 mm  |
| Weight                   | 4.6 kg  |

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

\* More information on request

| Order number |                            |
|--------------|----------------------------|
| SBA2456DB    | Antenna as described above |