

# Small Steerable Beam Antenna for UHF III+ SBA1327BS

The SBA1327BS is a small sized steerable beam antenna covering the UHF/NATO band III+ (1350 to 2700 MHz). The antenna beams can be steered to achieve optimal gain to the desired direction and to avoid interference from unwanted directions (LPI/LPD). The antenna provides up to 20 beams with a minimum of 30 degree beamwidth to cover the full 360 degree horizontal area. In addition to these narrow beams the antenna can also provide omni directional mode. Its extremely fast beam switching ability makes the antenna suitable for complex node network in tactical communication.

- Excellent performance in a small form factor
- Great directivity with very low side lobe levels to undesired direction (LPI/LPD)
- Fast beam switching by using RS-485/422 based communication



Product details*	
Frequency range	1350 - 2700 MHz
Polarization	Nominally vertical
Antenna type	Switched beam antenna
Radiation pattern	Directional and omni (Sharp and omni beam modes)
Gain (typical)	10-15 dBi (Sharp beam mode)
3 dB beamwidth, Elevation	24-47°
3 dB beamwidth, Azimuth	30-58°
Sidelobe level	-12 dB (typical)
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 (see information on Page 3)
Standard color	Black
Radiator	Selectable patch array element, 20 elements
Height	420 mm including the mast mount element
Diameter	420 mm
Weight	6.5 kg

Installation*	
RF connection	Female N-type connector
Power and control	See information on Page 3
Mounting	Mast mount adapters for 40-60 mm masts included

Order number	
SBA1327BS	Antenna as described above
SBA1327BS-M	Antenna with vehicle mounting flange (H: 370mm)

\* more information on request