

High Power SBA for 4400-5000MHz

SBA4450XB

The SBA4450XB is a high power switched beam antenna that is particularly suitable for tactical communication applications (UHF band IV). The antenna beam 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 sharp beams with a minimum of 20-degree beamwidth to cover the full 360-degree horizontal area. In addition to these sharp beams the antenna can also provide wider beams. 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 to undesired direction (LPI/LPD)
- Fast beam switching by using RS-485/422 or Ethernet based communication
- High power rating – 100 W



| Product details* | |
|--------------------------|---|
| Frequency range | 4400 - 5000 MHz |
| Polarization | Nominally vertical |
| Antenna type | Switched beam antenna |
| Radiation pattern | Directional and omni (sharp, wide and omni beams) |
| Gain (typical) | 14 dBi |
| 3 dB beamwidth (typical) | 25° (H-plane), 15° (H-plane) |
| Sidelobe level (typical) | -14 dB |
| VSWR | ≤ 2.0 |
| Nominal Impedance | 50 Ω |
| Power rating | 100 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 | 390 mm (including the mast mount adapter) |
| Diameter | 290 mm |
| Weight | 4.5 kg |

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

* More information on request

** Vehicle mounting option available

| Order number | |
|--------------|----------------------------|
| SBA4450XB | Antenna as described above |