

Elevate your connectivity with our advanced manpack antennas, designed to excel in the most challenging and mission-critical X, App30B-15 Ku, Kx, and Ka-bands applications

Key Features

- Carbon fiber reflector and supporting system for lighter weight and higher reliability
- Complies with MIL-STD-188-164A, ITU-R S.580 and INTELSAT requirements
- Designed and tested to drain rainwater of 100mm/h, at elevation angles of up to 90°, for use near Equator line
- Easy to assemble and disassemble, in less than 10 minutes each, by one person
- Antenna and RF parts fit into one backpack
- BUC and LNB can be easily connected to the antenna, to avoid repeated on-site connections
- Antenna can be converted to and from App30B-15, Kx and Ka-bands with simple replacement of feed with OMT and BUC/LNB
- Compatible with SpaceBridge ASAT™ and ESTELLA modems, and BUCs
- Integrated with SpaceBridge U7720-ODU modem
- Can be integrated to any ground network connectivity solution



RF CHARACTERISTICS

| Model | SBMP100X | SBMP100UL | SBMP100UX | SBMP100A |
|---------------------|------------------|---------------|--------------|-------------|
| Band | X | App30B-15 Ku | Kx | Ka |
| Tx Freq. (GHz) | 7.9 – 8.4 | 12.75 – 13.25 | 13.75 – 14.5 | 27.5 – 31.0 |
| Rx Freq. (GHz) | 7.25 – 7.75 | 10.7 – 11.7 | 10.7 – 12.75 | 18.3 – 20.2 |
| Polarization | Circular | Linear | Linear | Circular |
| Tx Gain mid-band | ≥ 36.4 dBi | ≥ 40.4 dBi | ≥ 41.1 dBi | ≥ 47.7 dBi |
| Rx Gain mid-band | ≥ 36.0 dBi | ≥ 39.1 dBi | ≥ 39.5 dBi | ≥ 44.3 dBi |
| XPD (dB) | ≥ 30 | ≥ 35 | ≥ 35 | ≥ 25 |
| VSWR | ≤ 1.3:1 | ≤ 1.25:1 | ≤ 1.25:1 | ≤ 1.3:1 |
| Isolation, Tx to Rx | ≥ 110 dB | ≥ 85 dB | ≥ 85 dB | ≥ 85 dB |
| Feed Interface | WR112 | WR75 | WR75 | WR42 WR28 |
| Sidelobe | MIL-STD-188-164A | ITU-R S.580 | ITU-R S.580 | ITU-R S.580 |

MECHANICAL

| | |
|---------------------------|--|
| Reflector size | 1.0m |
| Reflector type | Ring focus |
| Material of the reflector | Carbon fiber |
| Drive mode | Automatic, motorized or manual |
| Travel range | Az. ±180° Elev. 10 – 90° Pol. ±90° |
| Antenna Weight* | 13.5kg (without packing) 17.3kg (with 1 backpack) |
| Packing type | 2 backpacks or 1 backpack |

* Excludes BUC, LNB, accessories

ENVIRONMENTAL

| | |
|--------------------|---------------|
| Operational Temp. | -40°C - +60°C |
| Storage Temp. | -50°C - +70°C |
| Wind Speed | |
| Operational | 72km/h |
| Survival | 145km/h |
| Operational Rain | 100mm/h |
| Humidity | 100% @20°C |
| Ingress protection | IP67 |
| Vibration | MIL-STD-810F |
| Corrosion | MIL-STD-1250 |

Example of antenna packing

