SPACEBRIDGE
ALL THINGS CONNECTED

SBMP100 Series
1.0m X, Ku and Ka-band Manpack Antennas

These 1m rugged, lightweight and compact manpack antennas are suitable for the most demanding and mission critical applications.

Available in three bands: X, Ku and Ka-band

Key Features

- Carbon fiber reflector and supporting system for lighter weight and higher strength
- Designed and tested to drain rain water, even in the highest elevation angles
- Easy to assemble and disassemble
- Hi gain, low sidelobe, complies with MIL-STD-188-164A, ITU-R S.580 requirements
- Antenna and RF parts can be fit into one backpack
- Tracking system: both by beacon and DVB-S2/S2X
- Compatible with SpaceBridge ASAT™ modems
- Can be integrated to any ground network connectivity solution

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Specifications

Model	SBMP100X		SBMP100U		SBMP100A	
Band	X		Ku		Ka	
Frequency (GHz)	7.25 – 7.75	7.9 – 8.4	10.70 – 12.75	13.75 – 14.5	18.3 – 20.2	27.5 – 31.0
Polarization	Circular		Linear		Linear	
Gain, mid-band (dBi)	≥ 36	≥ 36.4	≥ 39.5	≥ 41.1	≥ 44.3	≥ 47.7
XPD (dB)	≥ 30		≥ 35		≥ 25	
VSWR	≤ 1.3		≤ 1.25		≤ 1.3	
Port-to-Port Isolation, Tx to Rx (dB)	≥ 110		≥ 85		≥ 85	
Feed Interface	WR112		WR75		WR42	WR28
Sidelobe	MIL-STD-188-164A		ITU-R S.580		ITU-R S.580	
Reflector size	1.0m					
Reflector type	Ring Focus					
Material of the reflector	Carbon Fiber					
Drive mode	Manual					
Travel range Azimuth Elevation Polarization	 ±180° 0 – 90° ± 90°					
Antenna Net Weight	13.5kg without BUC and LNB					
Packing type	Two backpacks or one backpack					
Packing dimensions (mm)	670x470x300, in one backpack					
Antenna Weight With Packing	17.3kg without BUC and LNB, in one backpack configuration					
Operational Temperature	-40°C - +60°C					
Storage Temperature	-55°C - +70°C					
Operational Wind Speed	72km/h with ballasts					
Survival Wind Speed	145km/h with ballasts and anchors					
Operational Rain	100mm/h					
Humidity	100%					
Ingress protection	IP67					
Vibration	MIL-STD-810F					
Corrosion	MIL-STD-1250					

One-backpack configuration