X-BAND SSPB 500W 7.9–8.4 GHZ SOLID STATE POWER BUC

X-band SSPB 500W solid state power BUC, 7.9–8.4 GHz, 75 dB gain, low phase noise, GaN design with forced-air cooling. Ideal for X-band teleports, gateways, MilSatCom, and broadcast uplinks. Psat 56 dBm, LO 6.95 GHz, IF 950–1450 MHz.

RF Characteristics	
Power	500 W
RF Output at Psat	56 dBm
RF Output at Plin	53 dBm
Output Frequency Range	7.9–8.4 GHz
Input Frequency Range	950–1450 MHz
Local Oscillator Frequency	6.95 GHz
Output Spurious	-55 dBc max
Spectral Re-growth	-30 dBc @ Plinear
Third order IMD	-25 dBc
Gain & Linearity	
Linear Gain	75 dB Nominal
Gain Control	20 dB in 0.1 dB steps

Gain Stability Over Temp	±2.0 dB max
Gain Variation at fixed temp	±2.0 dB over full band; ±0.5 dB over 40 MHz
Reference & Phase Noise	
10 MHz Reference	0 dBm ±5 dB
Phase Noise	-63 @100 Hz; -73 @1 kHz; -83 @10 kHz
Interfaces	
Input Impedance	50 Ohms
Output VSWR	1.50:1
RF Output Interface	CPR 112G (Grooved)
IF Input	N-Type Female, 50 Ohms
Connectors	DC: MS3102R14S-9P; AC: MS3102R14S-7P; M&C: MS3112E1419P; Redundancy: MS3112E14-19S (Optional)
Power & Cooling	
Power Consumption	1800 W
Cooling	Forced Air
Mechanical	
Dimensions (L×W×H)	139 × 298 × 489 mm
Weight	26 kg
Environmental	

Operating Temperature	-40…+55 °C
Storage Temperature	-40…+75 °C
Humidity	0–100% (condensing)
Altitude	10,000 ft ASL

Taking into consideration that we (UMT LLC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.