

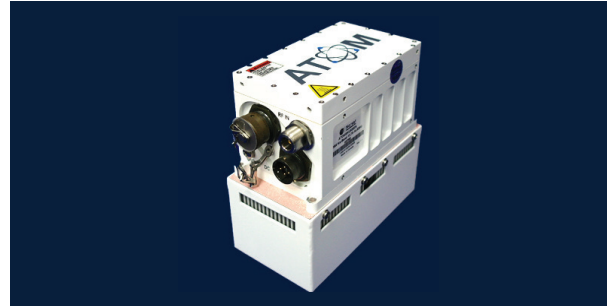


# BUC/SSPA

## KU-BAND 16W 20W

### ATOMBKU

#### SPECIFICATIONS



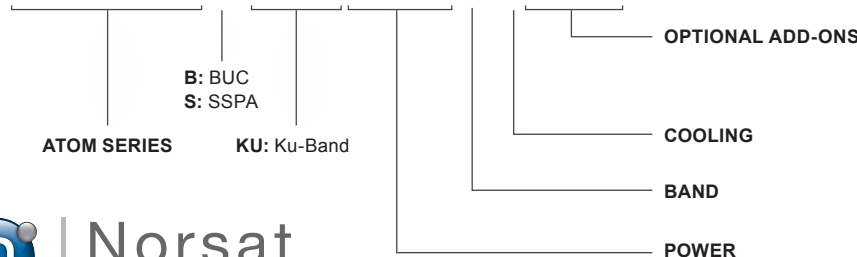
	ATOMBKU016	ATOMBKU020		
Output Power (Psat)	43 dBm min.	44 dBm min.	Input Voltage	+ 18V to + 56V DC via power connector
Output Power (P1dB)	42 dBm min.	43 dBm min.	Power Consumption	210 W max.
Phase Noise (SSB) max.		-72 dBc/Hz at 1kHz -82 dBc/Hz at 10kHz -92 dBc/Hz at 100kHz -102 dBc/Hz at 1MHz	Power Connector	MIL-26482 Series 1 receptacle Shell Size 12, 4 Pins 58-533723-04P
Linear Gain		≥ 60 dB	Input (waterproof)	Type N Connector (50 Ohm)
Gain Flatness: Over Full Band (BUC)		≤ 6.0 dB p-p	Output (waterproof)	WR-75 waveguide grooved
Gain Flatness: Over Any 40 MHz (SSPA)		≤ 2.0 dB p-p	M&C Interface	RS-485 & RS-232
Gain Flatness: Over Temperature		≤ 3.0 dB p-p	Dimensions (L x W x H) max.	164 mm x 91 mm x 181 mm (6.48 in x 3.60 in x 7.14 in)
Gain Flatness: Over Full Band (SSPA)		≤ 8.0 dB p-p	Weight	< 2.4 kg (5.30 lb)
Gain Flatness: Over Any 40 MHz (SSPA)		≤ 3.0 dB p-p	Operating Temperature	-40 to +60°C
Gain Flatness: Over Temperature (SSPA)		≤ 3.0 dB p-p	Storage Temperature	-50 to +80°C
Output Spurious: In-Band (BUC)		≤ -55 dBc	Humidity	100% condensing
Output Spurious: Out-of-Band @ P1dB (BUC)		≤ -55 dBc	External Ref Freq	10 MHz (sine-wave), -5 to +5 dBm
Output Spurious: In-Band (SSPA)		≤ -60 dBc	Enclosed Accessories	Screws, Gasket, M&C Connector, Power Connector
Output Spurious: Out-of-Band @ P1dB (SSPA)		≤ -55 dBc		
Noise Power Density		-65 dBm/Hz in Tx -65 dBm/Hz in Rx		
Input VSWR		2.0 : 1 max.		
Output VSWR		2.0 : 1 max.		

## FREQUENCY BANDS

	S: Standard	E: Extended
Transmit Frequency (GHz)	14.0 - 14.5	13.75 - 14.5
L.O. Frequency (GHz)	13.05	12.80
IF Frequency (MHz)	950 - 1450	950 - 1700

## HOW TO ORDER

# ATOMBKU016S1FIP



**BLANK:** No Add-on  
**F:** EMI/EMC Filter  
**I:** Internal Reference  
**P:** Surge Protection  
**FI:** EMI/EMC Filter & Internal Reference  
**IP:** Internal Reference & Surge Protection  
**FP:** EMI/EMC Filter & Surge Protection  
**FIP:** EMI/EMC Filter, Internal Reference & Surge Protection

**1:** Internal Fan  
**2:** External Baseplate

**S:** Standard  
**E:** Extended

**016:** 16W  
**020:** 20W



# KU-BAND 16W 20W BUC: ATOMBKU

## MONITOR & CONTROL

<b>M&amp;C Interface:</b>	RS-485 & RS-232
<b>M&amp;C Connector:</b>	MIL-26482 Series 1 receptacle Shell Size 12, 10 Pins 58-533723-10P
<b>Mute Control:</b>	Fully configurable (mute enable: high or low, mute default: enabled or disabled)
<b>Low</b>	0.0 - 0.8V
<b>High</b>	3.0 - 5.0V
<b>Thermal Shutdown Temperature</b>	90°C (Accuracy ± 3°C)

## OPTIONAL CONFIGURATION ADD-ONS

<b>EMI/EMC Filter:</b>	MIL-STD-461
<b>Internal Reference:</b>	With External 10 MHz Reference Auto-Switch
<b>Surge Protection:</b>	MIL-STD-1275D

## OPTIONAL ACCESSORIES

<b>Power Supply</b>	PS300-AT1-(NA/UK/EU/IEC)
<b>M&amp;C Cable (10m)</b>	CABLEM+C-AT10

## MECHANICAL DIAGRAM

