

“TREKKER”

8/12/16/20/25W

KU-BAND BUC



SATELLITE COMMUNICATIONS

MITEC'S 8-25W KU-BAND TREKKER BUC

The new Mitec BUC called the “Trekker”, incorporates all the superior performance characteristic of the well-known MTX product family into an even smaller form factor.

This design fills the need for Portable and Mobile VSAT terminals also known as Fly-aways. The super low profile and the connector positioning enables the antenna to fold neatly away with ease. Class leading 8 to 25W capability in this tiny form factor!

BUC A FW ver: 218856-001
Rev. 0.0

BLOCK UP CONVERTERS AND REDUNDANT SYSTEMS

HOME CONFIG LOG HELP

BUC A Status	
Output power (dBm)	39.8
Temperature (°C)	42.7
Input voltage (Vdc)	41.5
Mute	Unmuted
Summary alarm	OK

Controls

Mute Unmute

Alarm Details	
Out of lock	OK
Temperature	OK
Input voltage	OK
Power supply	OK

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KEY FEATURES

- Extremely compact size and light weight
- Easy to install
- Available in standard and extended bands
- High thermal dissipation efficiency resulting in “best in class” Mean Time Before Failure (MTBF)
- Superior phase noise, exceeding IESS308 /309
- 1:1 Best in class efficiency with 240 W draw for 25 W of RF output
- Built In internal protection for over voltage, over current and over temperature; out of lock shut down.
- Built-in telemetry facilities for RF power detection, mute control and summary alarm
- HTTP Hosting
- SNMP
- Ethernet M&C interface (Optional: RS485, RS232 or dry-contacts)

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8/12/16/20/25W KU-BAND BUC

ELECTRICAL CHARACTERISTICS	8W	12W	16W	20W	25W
RF Output at 1 dB GCP	+39 dBm	+41 dBm	+42 dBm	+43 dBm	+44dBm
Linear Gain	63 dB	63 dB	65 dB	65 dB	65 dB
Gain Variation at fixed temperature	Over full band: ± 2.0 dB; over 40 MHz: ± 0.5 dB				
Gain Stability Over Temperature Range	± 1.5 dB typ, ± 2.0 max				
Output Frequency Range	Standard Band : 14.00-14.50 GHz; Extended Band: 13.75-14.50 GHz				
Input Frequency Range	Standard Band: 950-1450 MHz; Extended Band: 950-1700 MHz				
Local Oscillator Frequency	Standard Band: 13.05 GHz; Extended Band: 12.80 GHz				
Output VSWR	1.20:1				
Intermodulation	-25 dBc, with 2 equal carriers at 3 dB total power backoff from rated power				
10 MHz Reference	0 dBm ± 0.5 dB, (Optional - Internal) Phase Noise Requirements: -135 dBc/Hz max @ 100 Hz, -140 dBc/Hz max @ 1 KHz, -143 dBc/Hz max @ 10 KHz; -153 dBc/Hz max @ 100 KHz				
Local Oscillator Phase Noise	-62 dBc/Hz max @ 100 Hz, -73 dBc/Hz max @ 1 KHz, -90 dBc/Hz max @ 10 KHz, -100 dBc/Hz max @ 100 KHz, -110 dBc/Hz max @ 1 MHz				
Output Spurious	-55 dBc max.				
Receive Band Noise Power Density	-150 dBm/Hz max.				
Input Impedance	50 Ohms				
Input VSWR	1.50:1				
Power Requirements	+32 to +55 VDC				
Power Consumption (at rated power)	90W	150W	210W	220W	240W

INTERFACE

Output Interface	Waveguide, WR75G (Grooved)
Input Interface	N-Type Female, 50 Ohms
DC Power Connector	MS Connector
M&C, Ethernet	MS Connector

MECHANICAL

Cooling	Forced Air
Dimensions (L x W x H)	9.60" x 7.02" x 3.06" (244 x 178 x 78 mm)
Weight	8.8 lbs (4 kg)

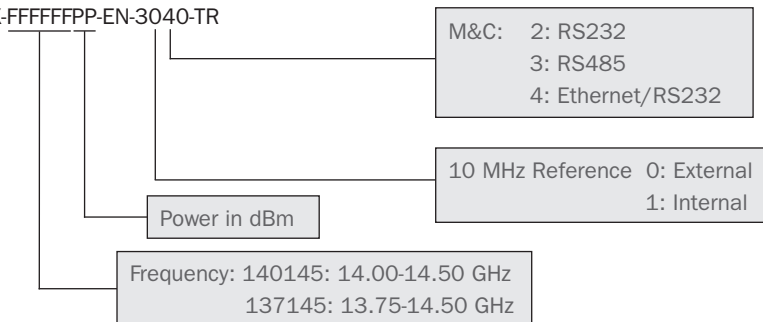
ENVIRONMENTAL

Temperature Range (ambient)	-40°C to +55°C (operating); -40°C to + 75°C (storage)
Humidity	0 to 100% (condensing)
Altitude	10,000 ft ASL

ORDERING INFORMATION

To place an order, build your specific KU-BAND BUC by specifying the following in your ordering number:

Ordering Number: MTX-FFFFFPP-EN-3040-TR



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