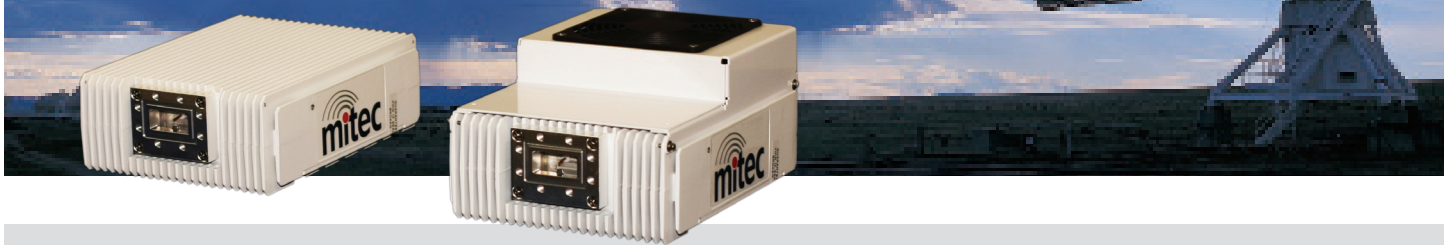


# 5-40 W C-BAND MTX BUC



## SATELLITE COMMUNICATIONS

### THE NEW GENERATION OF MITECVSAT MEDIUM POWER C-BAND BUCs

Comes with a super-compact form factor, is light weight and extremely efficient, which allows it to be mounted directly on the antenna feed.

BUC A FW ver: 218856-001  
Rev: 0.0

BLOCK UP CONVERTERS AND REDUNDANT SYSTEMS

HOME CONFIG LOG HELP

Uplink  
Downlink  
BUC A  
BUC B

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

- Best in class efficiency with a draw of less than 45W for 5W and less than 65W for 10W. Can be powered by the modem; no expensive power supply required.
- Offered in 5 different sub-bands
- FSK Interface via IF connector
- Internal reference Option
- Full M&C Option including RS-232, RS-485, Ethernet and SNMP
- Wide range of supply voltage 18 to 55 VDC for 5-10W and 36 to 55VDC for 20-40W BUC.
- Built In low voltage protection will shut down the BUC when 20-40W is powered from 24VDC
- Status LED

YOUR DAILY EXPERIENCE POWERED BY MITEC VSAT

SALES@MITECVSAT.COM | WWW.MITECVSAT.COM | 1-514-694-8666

**mitec** VSAT  
a division of Alga Mircowave Inc.

# 5-40 W C-BAND BUC

## TRANSMIT CHARACTERISTICS

Output Frequency Range	Band 1: 5.850-6.425 MHz; Band 2: 5.850-6.725 GHz; Band 3: 5.725-6.425 GHz; Band 4: 6.725-7.025 GHz; Band 5: 6.425-6.725 GHz.
Input Frequency Range	Band 1: 950-1525 MHz; Band 2: 950-1825 MHz; Band 3: 950-1675 MHz; Band 4: 1275-1575 MHz; Band 5: 975-1275 MHz.
Local Oscillator Frequency	Bands 1 & 2 : 4.90 GHz; Band 3: 4.75 GHz; Bands 4 & 5: 5.45 GHz
Output VSWR	1.20:1
Linear Gain	Refer to table "Specifications by BUC Power"
Gain Stability Over Temperature	± 1.5 dB nominal; ± 2.0 dB max.
Gain Variation at fixed temperature	<b>Over full band:</b> Bands 1, 4 & 5: ± 2.0 dB; Band 2 : ± 2.50 dB; Band 3: ± 2.25 dB Over 40 MHz: ± 0.5 dB for all bands
Intermodulation	-25 dBc, with 2 equal carriers at 3 dB total power backoff from rated power
10 MHz Reference	0 dBm ±0.5 dB, (External via IF Connector or Internal)
Local Oscillator Phase Noise	-65 dBc/Hz max @ 100 Hz; -75 dBc/Hz max @ 1 KHz; -85 dBc/Hz max @ 10 KHz; -95 dBc/Hz max @ 100 KHz ; -110 dBc/Hz max @ 1 MHz
Output Spurious	Bands 1, 3, 4, 5: -60 dBc; Band 2: -45 dBc
Receive Band Noise Power Density	-150 dBm/Hz max.
Input Impedance	50 Ohms
Input VSWR	1:50:1

## INTERFACE

RF Output	Waveguide, CPR137G (Grooved)
IF Input	N-Type Female, 50 Ohms
Power Supply	Standard: DC Via Coaxial Connector; Optional: DC or AC via MS Connector
M&C	Standard: FSK via Coaxial Connector; RS485/RS232/Ethernet optional via MS Connector

## ENVIRONMENTAL

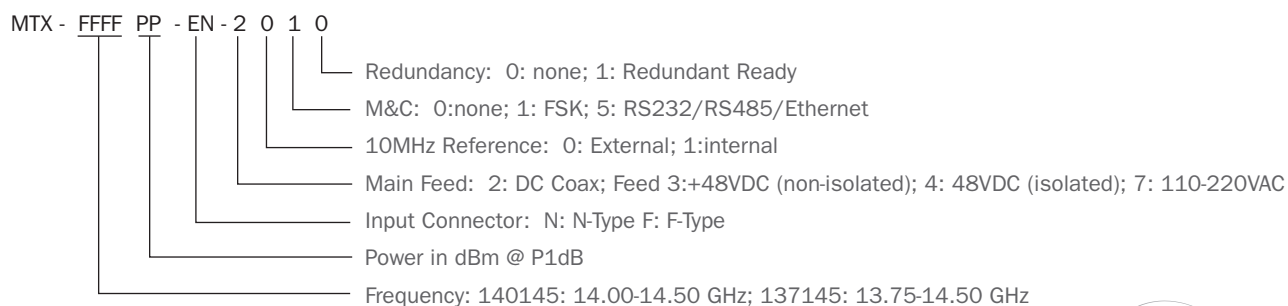
Temperature Range (ambient)	-40°C to + 55°C (operating); -40°C to + 75°C (storage)
Humidity	0 to 100% (condensing)
Altitude	10,000 ft ASL

## SPECIFICATIONS BY BUC POWER

BUC POWER	RF POWER @ P1DB (dBm)	GAIN MIN. (dB)	POWER DRAW (W)	COOLING	POWER BUC	DIMENSIONS (INCHES)	WEIGHT (LBS/KG)
5W	+37	60	45	Convection	+18 to +55 VDC (Coax Feed)	9.0 x 7.0 x 3.0	8.8/4
10W	+40	63	65	Convection	+18 to +55 VDC (Coax Feed)	9.0 x 7.0 x 3.0	8.8/4
					+48 VDC (non-isolated)	9.0 x 7.0 x 3.0	8.8/4
					+48 VDC (isolated), 110/220 VAC	9.0 x 7.0 x 4.75	12.5/5.7
20W	+43	66	140	Fan	+36 to +55 VDC (Coax Feed)	9.0 x 7.0 x 4.65	10/4.5
					+48 VDC (non-isolated)	9.0 x 7.0 x 4.65	10/4.5
					48 VDC (isolated), 110/220 VAC	9.0 x 7.0 x 6.4	13.7/6.2
40W	+46	68	250	Fan	+36 to +55 VDC (Coax Feed)	9.0 x 7.0 x 4.65	10/4.5
					+48 VDC (non-isolated)	9.0 x 7.0 x 4.65	10/4.5
					48 VDC (isolated), 110/220 VAC	9.0 x 7.0 x 6.4	13.7/6.2

\* for a 30W unit consult factory

## ORDERING INFORMATION



YOUR DAILY EXPERIENCE POWERED BY MITEC VSAT

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Rev. 1 04/12

