

16/25/40/50 W Ku BUC

FEATURES

- High output power with low power consumption
- Highly integrated design creates higher reliability
- GaN HEMTs results in best-in-class MTBF (40/ 50 W)
- Outdoor design for wide operating temperature range
- Compact and light weight design
- Built-in telemetry facilities for RF power detection, mute control, gain control, high temperature shut-downs and summary alarms
- Designed to meet ETSI, FCC Standards
- RoHS Compliant

APPLICATIONS

- Mobile Backhaul
- Maritime
- Flyaway SNG Terminals
- Communication-On-Moving
- Transportable VSAT Stations

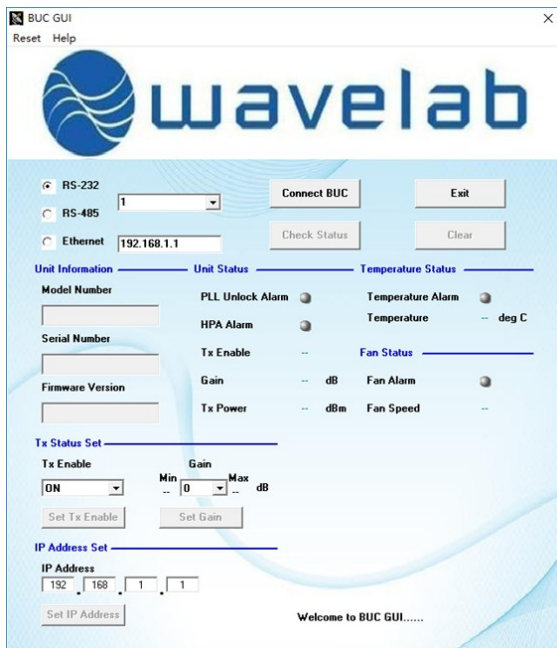
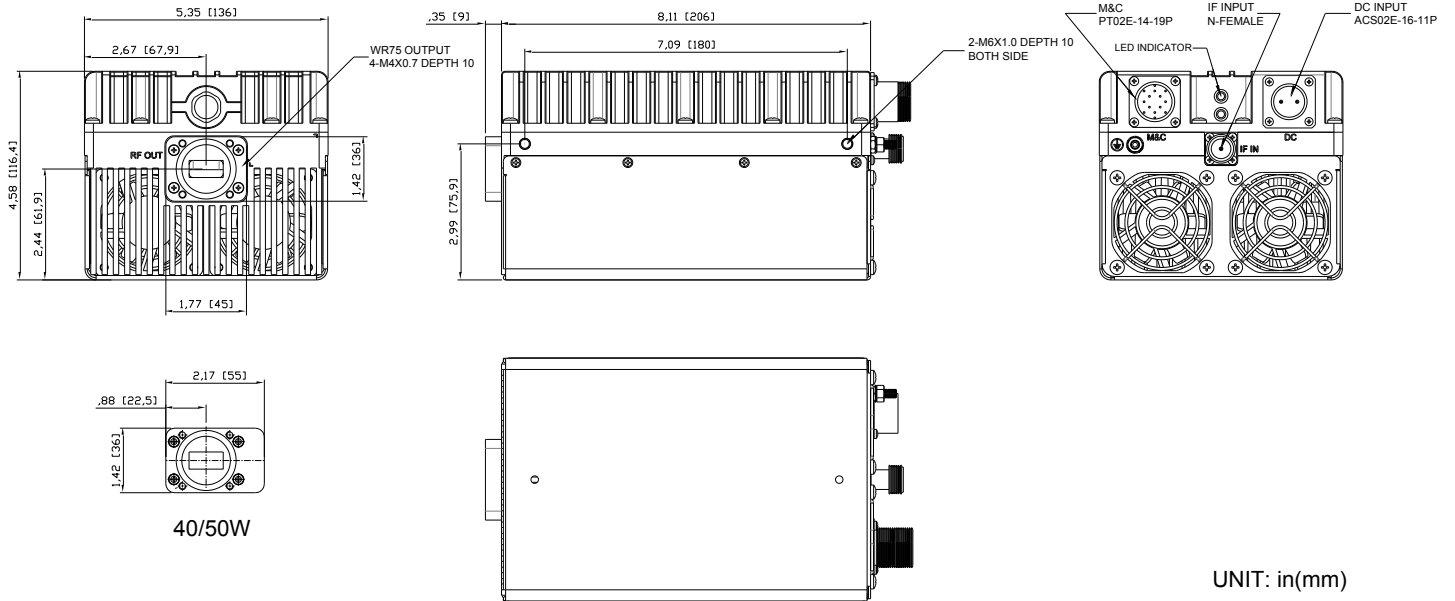
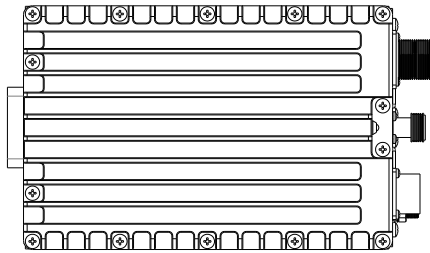


WaveLab Advantage™ BUCs (Block Up Converter) are technically advanced, highly reliable, and very cost effective due to high levels of integration design for high volume production.

Next generation technologies provide higher output power in smaller, lighter weight packages for being more reliable and using less energy. WaveLab Ku band BUCs can be mounted in most existing customer systems because of their small size.

SPECIFICATIONS				
RF	16 W	25 W	40 W	50 W
Transmit Frequency - Extended Band Optional	14.0 - 14.5 GHz 13.75 - 14.5 GHz			
IF Frequency - Extended Band Optional	950 - 1450 MHz 950 - 1700 MHz			
External Reference	10 MHz, 0 ± 5 dBm			
Saturated Output Power	42.5 dBm	44.5 dBm	46.5 dBm	47.5 dBm
P1dB Output Power	≥42 dBm	≥44 dBm	N/A	N/A
Rated Output Power	42 dBm	44 dBm	46 dBm	47 dBm
IM3 - 3 dB Back-off from Rated Output Power	≤-25 dBc			
Small Signal Gain	70 dB			
Gain Variation (Over frequency at fixed temperature)	1 dB p-p/ 36 MHz, 3 dB p-p/ 500 MHz, 4 dB p-p/ 750 MHz			
Gain Stability (Over temperature at fixed frequency)	±1.5 dB			
Gain Adjustment Range	20 dB (Step: 0.1 dB)			
Phase Noise	-63 dBc/Hz@ 100 Hz, -73 dBc/Hz@ 1 KHz -83 dBc/Hz@ 10 KHz, -93 dBc/Hz@ 100 KHz			
Output Spurious	-55 dBc (Max)			
POWER SUPPLY				
Power Supply	+36 to +72 VDC			
Power Supply Draw - at Rated Output Power - 3 dB Back-off from Rated Output Power	130 W 115 W	240 W 215 W	300 W 270 W	380 W 330 W
INTERFACES				
RF Output Connector	WR75-G (Grooved)			
RF Output VSWR	1.25: 1			
IF Input Connector	N-Type Female			
IF Input VSWR	1.5: 1			
Power Supply Connector	ACS02E16-11P			
Monitor and Control Connector	PT02E-14-19P, for RS-485 & RS-232 & Ethernet (Telnet)			
LED Indicators	LEDs off: Equipment functioning properly Yellow LED on: PLL unlock alarm			
PHYSICAL PARAMETERS				
Size	206*136*116 mm			
Weight	4 Kg			
Operation Temperature	-40 to +60 °C			
Humidity	0 - 100% (Condensing)			
Altitude	0 - 3000 m ASL			

Mechanical Diagram



WaveLab BUC GUI

It provides various methods of the remote M&C including Ethernet (Telnet), RS-485 and RS-232. Users may check unit information and status, and change the setting of Gain and TX Enable.

Ordering Number

W L B - K U X Y Y - 0 0 0 0 W - A 1

X: Frequency range

- **S** - standard band 14.0 - 14.5 GHz
- **E** - extended band 13.75 - 14.5 GHz

YY: Power in WATTS

- **16** - 16 Watts, **25** - 25 Watts, **40** - 40 Watts, **50** - 50 Watts

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