

AnaCom's XKu-Band pBUC Block Up-Converters provide the high output power reliability of our Baby BUC in a flatter package ideal for mobile and fly-away antennas, even in situations involving extreme temperatures and high vibrations. pBUCs are designed for continuous outdoor duty in all types of harsh environments. Ideally suited for SCPC, MCPC, DAMA, TDMA, and VoIP applications and designed to interface with any L-band modem, the pBUC may be used in a wide variety of communication networks.

AnaCom's pBUC features web-based and command-line access to Monitor and Control functions accessible via Ethernet, FSK, Telnet, RS-232- and RS-485, and device monitoring over SNMP.

## Features

- ✓ Built in test capabilities for improved maintainability and reduced dependence on external test equipment
- ✓ No indoor RF equipment is needed
- ✓ Superior phase noise
- ✓ Flexible, universal DC power supply (AC optional)

## Built In Test Capability

To improve and simplify maintenance routines, an external terminal (or computer) can be connected to monitor a number of critical parameters without use of additional test equipment. These include:

- ✓ Transmitter power output level
- ✓ TX IF level
- ✓ Power supply voltages
- ✓ TX synthesizer loop voltages
- ✓ Internal Temperature
- ✓ Alarm Details

Controllable functions from the terminal include:

- ✓ TX On/Off
- ✓ TX Gain

## Benefits

- ✓ "Last Touch" controls allow for remote configuration or local (*manual*) configuration
- ✓ Flash memory means that the BUC always powers up with exactly the same operating conditions as when it lost power (*or was shut down*)
- ✓ Comprehensive maintenance features for operational effectiveness and minimum outages.
- ✓ Simple installation.

## Comprehensive Monitor & Control

The pBUC's Monitor & Control feature allows you to monitor and control the BUC on the same M&C bus with most indoor equipment such as modems and multiplexers. The Monitor & Control system can be used in combination with the unit's internal metering function to monitor operational parameters.

The M&C can be accessed remotely via-

Ethernet protocols:

- ✓ Internal Webpage
- ✓ Telnet
- ✓ SNMP
- ✓ AnaCom Supervisor 10

Serial protocols:

- ✓ RS-232
- ✓ RS-485
- ✓ AnaCom Supervisor 10

## Compact, Functional Design

The upconverter, power amplifier, monitor and control and power supply are included in a single enclosure. The only cabling required to the indoor equipment are IF and power. An optional ovenized, high stability crystal oscillator can be used to lock the TX synthesizer. Additional temperature and aging compensation are provided by an onboard microprocessor.



# pBUC

## XKu-Band series

## SPECIFICATIONS

		8W	16W	25W	32W	40W
<b>TRANSMIT CHARACTERISTICS</b>	1 dB COMPRESSION POINT (dBm)	39	42	44	45	46
	TX GAIN (Nominal)	64	67	69	70	71
	TX GAIN RANGE	20 dB variable in 1 dB steps via M&C				
	TX LEVEL FLATNESS	3 dBp-p max / 500 MHz				
	TX GAIN OVER TEMPERATURE	+/- 1.5 dB max				
	TX INPUT IF FREQUENCY	950 to 1450 MHz				
	TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)				
	TX INPUT IF LEVEL	-25 dBm for rated output with nominal gain				
	TX L.O. FREQUENCY	11.8 GHz				
	TX OUTPUT FREQUENCY	12.75 to 13.25 GHz				
	TX PHASE NOISE	-60 dBc/Hz max @ 100Hz -90 dBc/Hz max @ 100KHz	-70 dBc/Hz max @ 1KHz -100 dBc/Hz max @ 1MHz	-80 dBc/Hz max @ 10KHz		
	INTERMOD	-32 dBc max (2 carriers, each 9dB backoff from P1dB rating)				
	SPURIOUS	-55 dBc max out of band				
<b>REFERENCE</b>	Requirements	Provided on TXIF line by L-band modem				
	FREQUENCY	10 MHz (sine-wave)				
	INPUT POWER	-5 to +5 dBm (at input port)				
	PHASE NOISE	-125 dBc/Hz max @ 100Hz -135 dBc/Hz max @ 1KHz -140 dBc/Hz max @ 10KHz				
	INTERNAL REFERENCE OPTION	10 <sup>-8</sup> over rated temperature				
<b>SYSTEM</b>	ALARM RELAYS	FORM C for Summary Alarm; Isolated				
	POWER	48V DC		optional external AC		
	M&C	SNMP, HTTP, Telnet		Ethernet, RS-232, RS-485, FSK		
<b>ENVIRONMENTAL</b>	TEMPERATURE	-50 to +55°C operational -50 to +75°C storage				
	HUMIDITY	95% at 45C				
	ALTITUDE	6,500 meters (21,500 ft) max				
	RAIN	20 inches per hour				
	WIND	150 miles per hour				
	VIBRATION	1.0 g random operational, 2.5 g random survival				
SHOCK	10 g operational, 40 g survival					
<b>POWER &amp; DIMENSIONS</b>	TYPICAL POWER CONSUMPTION (VA)	111	189	256	266	372
	PRIME POWER RECOMMENDATION	220	380	500	532	750
	WEIGHT	15.9 lbs. 7.2 kg				
	BUC SIZE	12.6" x 10.3" x 4.4"				

\*all specifications subject to change

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