Ku 8-25

8, 16, 20, 23 and 25 Watts



AnaSat® 8Ku

GENERAL DESCRIPTION

AnaCom's Ku-Band VSAT transceivers integrate all necessary functions into a small, highly integrated out-door package which provides excellent reliability in a wide range of environments and functions. The up converter, down converter, power amplifier, monitor and control and power supply are included in a single enclosure and the only cabling required to the indoor equipment are the IF cables. The LNC connects to the transceiver with a single coaxial cable.

An ovenized, high stability crystal oscillator is used to lock the TX and RX synthesizers. The onboard microprocessor is used to give additional temperature and aging compensation. These transceivers are ruggedly built for continuous outdoor duty in all types of environments. They are especially suitable for SCPC, MCPC, and DAMA applications.

FFATURES

- No indoor equipment is needed
- Built in test facilities for improved maintainability and reduced dependence on external test equipment
- Frequency agile radio equipment. Completely independent TX and RX frequency selection
- Superior phase noise
- Flexible and universal power supply

FLEXIBLE APPLICATIONS

Data distribution and collection

Rural telecommunications

Industrial networking

LAN and WAN extensions

Emergency link restoration

Remote surveillance

Broadcast

Point-of-Sales systems

Video teleconferencing

Conventional voice traffic

BUILT IN TEST EQUIPMENT

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/RX IF input level
- Power supply voltages
- TX/RX synthesizer loop voltages
- Internal Temperature
- Alarm Details

CONTROLLABLE FUNCTIONS FROM THE TERMINAL

- TX frequency and gain (ON / OFF feature)
- RX frequency and gain (independent from TX)

COMPREHENSIVE MONITOR & CONTROL

This powerful feature allows you to monitor and control the transceiver 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.

BENEFITS

- A family of products with significant commonality minimizes demands for spares and training
- "Last Touch" controls allow for remote configuration or local (manual) configuration
- Flash memory means that the transceiver always powers up with exactly the same operating conditions as when it lost power (or was turned off)
- Comprehensive maintenance features for operational effectiveness and minimum outages
- Simple installation



SPECIFICATIONS

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	8 WATTS	16 Watts	20 WATTS	23 WATTS	25 WATTS	
1 dB COMPRESSION POINT	39 dBm	42 dBm	43 dBm	43.6 dBm	44 dBm	
TX GAIN	70 dB	73 dB	76 dB	77 dB	77 dB	
TX GAIN ADJUSTMENT RANGE	+6 to -20 dB M&C controlled					
TX LEVEL FLATNESS	±1.5 dB / 36 MHz					
TX GAIN STABILITY	±1.5 dB over temperature and frequency					
TX INPUT IF FREQUENCY	52 to 88 MHz (optional 140 MHz)					
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)					
TX INPUT IF LEVEL	-30 dBm ±10 dB (+20 dBm MAX)					
TX OUTPUT FREQUENCY	14.0 to 14.5 GHz					
TX FREQUENCY STEP SIZE	1 MHz M&C	1 MHz M&C controlled				
TX PHASE NOISE	100 Hz: -60 c	100 Hz: -60 dBc, 1 KHz: -70 dBc				
¥	10 KHz: -80 dBc, 100 KHz: -90 dBc					
TX LINEARITY	-30 dBc (2 ca	-30 dBc (2 carriers @ 9 dB back-off)				
TX INSTANTANEOUS BANDWIDTH	±18 MHz	±18 MHz				
RX INPUT FREQUENCY	10.95 - 12.75	GHz				
RX FREQUENCY STEP SIZE		1 MHz M & C controlled				
RX OUTPUT FREQUENCY	52 to 88 MHz					
RX INSTANTANEOUS BANDWIDTH	±18 MHz					
RX GAIN	85 to 100 dB M&C controlled					
RX GAIN VARIATION	±1.5 dB over temperature and frequency					
RX NOISE FIGURE	1.9 dB (160°K), 1.4 dB (110°K) Optional					
RX LINEARITY	-35 dBc intermod, MAX					
RX PHASE NOISE	100 Hz: -60 dBc, 1 KHz: -70 dBc					
		Bc, 100 KHz:	-90 dBc			
RX OUTPUT IMPEDANCE	50 ohms (75 ohms optional)					
PORTS	1 RS-232, and 1 RS-485/RS-232 configurable					
PROTOCOL		RS-232 port supports any "dumb terminal" or ASCII interface RS-485 port supports addressed packetized data per				
	ANACOM Supervisor™ software specifications					
ALARM RELAYS	FORM C for MAJOR and MINOR alarms; isolated					
VISUAL INDICATORS	GREEN LED (flashing) indicates power is active					
POWER	RED LED indicates a summary alarm 100 to 242 VAC; 47 to 63 Hz					
POWEN	100 to 242 v	AC; 47 to 63 H	Z			
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TEMPERATURE		-40 to +50°C operational				
-ALTHURE		-60 to +75°C storage				
ALTITUDE	15,000 ft (5,000 meters) MAX					
RAIN	20 inches per hour					
WIND	150 miles per hour					
VIBRATION SHOCK	1.0 g random operational, 2.5 g random survival 10 g operational, 40 g survival					
REUSABLE CUSTOM DESIGNED PACKAGING	•	Exceeds 1 meter 10 point drop method				
TEOS/IDEE COSTONI DESIGNED L'ACIAGINA	Exceeds Titleter To point drop method					
TVDICAL DOLLED CONCLUSTRATION		07517		205:11	205: //	
TYPICAL POWER CONSUMPTION	160VA	272VA	294VA	298VA	302VA	
PRIME POWER RECOMMENDATION WEIGHT	400VA 28 lbs	690VA 37 lbs	700VA 40 lbs	710VA 40 lbs	720VA 40 lbs	
WLIGHT	(12.7 kg)	(16.8 kg)	(18 kg)	(18 kg)	(18 kg)	
TRANSCEIVER SIZE — 8W				(10 kg)	(10 kg)	
— 16W, 20W, 23W, 25W		21.6" x 9.0" x 11.6" (549 x 229 x 295 mm) 21.6" x 9.0" x 13" (549 x 229 x 330 mm)				
LNC SIZE / WEIGHT	8.4" x 2.9" x 1.8" (213 x 74 x 46 mm) / 1.75 lbs (0.80 kg) max.					
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