



ANACOM's series of C-Band VSAT transceivers are available in transmitter output levels of 0 dBm, 2, 5, 10, 20, and 40 watts, in single or redundant configurations. These transceivers are ruggedly built for continuous outdoor duty in all types of environments. They are especially suitable for SCPC, MCPC, and DAMA applications.

Features

- Easy to install and operate.
- No indoor equipment is needed.
- Built in test facilities with enhanced Windows™ based M&C functions.
- Compliant with relevant CCITT and CCIR recommendations as well as Intelsat specifications.
- Frequency agile radio equipment.
- Completely independent TX and RX frequency selection.
- Superior phase noise, compliant to IESS 308 /309.
- Universal power supply.

Flexible Applications

- Rural Telecommunications Expansion
- Industrial Networking
- LAN and WAN extensions
- Emergency link restoration
- Remote Surveillance
 - Distance Learning
- Broadcast
- Data distribution and collection
- Point-of-Sales Systems
- Video teleconferencing
- Conventional Voice Traffic

Compact, Functional Design

ANACOM's C-Band VSAT transceivers integrate all necessary functions into a small, highly integrated out-door package which (*see next page*) provides excellent reliability in a wide range of environments and functions.

The up converter, down converter, power amplifier, monitor and control and power

ANACOM, Inc.

STANDARD C-BAND

VSAT TRANSCEIVER SERIES

0 dBm, 2, 5, 10, 20 AND 40 WATTS

supply are included in the small package. The only cabling required to the indoor equipment are 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.

BITE Facility

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
- Power supply voltages
- TX and RX local oscillator stresses
- Internal temperature
- Alarm details

Controllable functions from the terminal include:

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

Comprehensive Monitor & Control

A powerful Monitor and Control 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.

Windows®-based Supervisor™ M & C software is provided for use in combination with a PC for monitoring and controlling all major earth station equipment besides the transceiver.

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.
- Manufactured using state-of-the-art technology.

AnaSat® - C

SPECIFICATIONS

TRANSMIT CHARACTERISTICS	0 dBm	2W	5W	10W	20W	40W
1 dB COMPRESSION POINT	8 dBm	33 dBm	37 dBm	40 dBm	43 dBm	46 dBm
TX GAIN	30 dB	64 dB	68 dB	71 dB	74 dB	77 dB
TX GAIN ADJUSTMENT RANGE	+6 to -20 dB M&C controlled					
TX GAIN VARIATION	± 1.5 dB over frequency and temperature					
TX INPUT IF FREQUENCY	52 to 88 MHz					
TX INPUT IF IMPEDANCE	50 ohms (75 ohms optional)					
TX INPUT IF LEVEL	-30 dBm ± 10 dB (+20 dBm MAX)					
TX OUTPUT FREQUENCY	5.925 to 6.425 GHz					
TX FREQUENCY STEP SIZE	1 MHz M&C controlled					
TX PHASE NOISE	100 Hz: -60 dBc, 1 KHz: -70 dBc 10 KHz: -80 dBc, 100 KHz: -90 dBc					
TX LINEARITY	-33 dBc (2 carriers @ 9 dB back-off)					
TX INSTANTANEOUS BANDWIDTH	± 18 MHz					
RECEIVER(w/LNC) CHARACTERISTICS						
RX INPUT FREQUENCY	3.700 - 4.200 GHz					
RX FREQUENCY STEP SIZE	1 MHz M & C controlled					
RX OUTPUT FREQUENCY	52 - 88 MHz					
RX INSTANTANEOUS BANDWIDTH	± 18 MHz					
RX GAIN	85 to 100 dB M&C controlled					
RX GAIN VARIATION	± 1.5 dB over frequency and temperature					
RX NOISE FIGURE	0.9 dB MAX					
RX LINEARITY	-35 dBc intermod, MAX					
RX PHASE NOISE	100 Hz: -60 dBc, 1 KHz: -70 dBc 10 KHz: -80 dBc, 100 KHz: -90 dBc					
RX OUTPUT IMPEDANCE	50 ohms (75 ohms optional)					
SYSTEM						
PORTS	2 RS-232, or 1 RS-232 and 1 RS-485					
PROTOCOL	RS-232 port supports any "dumb terminal" 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 RED LED indicates a summary alarm					
POWER	100 to 242 VAC; 47 - 63 Hz					
ENVIRONMENTAL						
TEMPERATURE	-40 to +50°C operational -60 to +75°C storage					
ALTITUDE	15,000 ft (5,000 meters) 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					
REUSABLE CUSTOM DESIGNED PACKAGING	Exceeds 1 meter 10 point drop method					
POWER & DIMENSIONS						
POWER CONSUMPTION	23W typ. 47W typ. 82W typ. 150W typ. 225W typ. 350W typ.					
WEIGHT	20 lbs. 27 lbs. 27 lbs. 34 lbs. 34 lbs. 39 lbs. (9.1 kg.) (11.8 kg.) (11.8 kg.) (13.6 kg.) (13.6 kg.) (15.6 kg.)					
TRANSCEIVER SIZE	- 0 dBm, 2W, 5W 21.6" x 9.0" x 7.0" (549 x 229 x 178 mm) - 10W, 20W 21.6" x 9.0" x 12.1" (549 x 229 x 307 mm) - 40W 21.6" x 9.0" x 13.6" (549 x 229 x 331 mm)					
LNC SIZE / WEIGHT	3.7" x 2.8" x 3.9" (91 x 71 x 99 mm) / 2.0 lbs. (0.9 kg.) max.					

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