AnaSat®

C

0W to 400W

EC SEC LMI-EC PC RC XC

AnaCom's series of C-band VSAT transceivers are available in transmitter output levels up to 400 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.

The upconverter, downconverter, power amplifier, monitor and control and power supply are included in a single enclosure and 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. Additional temperature and aging compensation are provided by the onboard microprocessor. An LNA configuration is also available.

Features

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

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 and RX IF level
- Power supply voltages
- ▼ TX and RX synthesizer loop voltages
- ✓ Internal Temperature
- Alarm Details

Controllable functions from the terminal include:

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

Benefits

- "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.

Comprehensive Monitor & Control

A powerful Monitor & 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.

The M&C can be accessed remotely via-

Ethernet protocols:

Serial protocols:

✓ Internal Webpage

✓ RS-232 ✓ RS-485

✓ Telnet ✓ SNMP

✓ AnaCom Supervisor 10

✓ 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.



| AnaSat® | SPECIFICATIONS | |

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| C-Band Series | ow | 2W | 5W

 | 10W
 | 20W | 30W | 40W | 50W | 60W

 | 70W | 80W | 100W
 | 125W | 150W
 | 180W | 200W | 300W | 350W
 | 400W |
| 1 dB COMPRESSION POINT (dBm) | 8 | 33 | 37

 | 40
 | 43 | 44.8 | 46 | 47 | 47.8

 | 48.5 | 49 | 50
 | 51 | 51.8
 | 52.6 | 53 | 54.8 | 55.4
 | 56 |
| TX GAIN | 31 | 64 | 68

 | 71
 | 74 | 75.8 | 77 | 78 |

 | | 80 | 81
 | 82 |
 | | 84 | | _
 | 87 |
| TX GAIN RANGE | +6/-20 dB variable in 1 dB steps via M&C | |

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| TX LEVEL FLATNESS | +/- 1.5 dBp-p max / 500 MHz | |

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| TX GAIN OVER TEMPERATURE | _ | |

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| TX INPUT IF FREQUENCY | 52 to | 52 to 88 MHz |

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| TX INPUT IF IMPEDANCE | 50 ohms (75 ohms optional) | |

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| TX INPUT IF LEVEL | -30 dBm for rated output with nominal gain | |

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| TX OUTPUT FREQUENCY | EC = | 5.850 | to 6.4

 | 425 G
 | Hz | | SEC | = 5.8 | 50 to

 | 6.725 | GHz |
 | LMI-E | C = 5.
 | .725 to | 6.42 | 5 GHz |
 | |
| | PC = | 6.425 | to 6.

 | 725 G
 | Hz | | RC | = 5.97 | 5 to 6

 | .475 (| ΞHz |
 | XC = | 6.725
 | to 7.0 | 25 GH | lz |
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| TX FREQUENCY STEP SIZE | 1 MH | łz M& | C con

 | trolle
 | d | | (XC | Band | 500 K

 | Hz ste | ep size | e)
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 | |
| TX PHASE NOISE | | |

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 | x @ 1k | Ήz |
 | -80 d | Bc/Hz
 | max (| @ 10K | Hz |
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| TX LEVEL FLATNESS TX GAIN OVER TEMPERATURE TX INPUT IF FREQUENCY TX INPUT IF LEVEL TX OUTPUT FREQUENCY TX FREQUENCY TX FREQUENCY STEP SIZE TX PHASE NOISE | | |

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| RX INPLIT FREQUENCY | FC = | 3 625 | to 4

 | 200 G
 | Hz | | SEC | = 3.4 | 00 to

 | 4 200 | GHz |
 | I MI-F | C = 3
 | 375 to | 3 95 | 0 GHz |
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| RX FREQUENCY STEP SIZE | 1 MH | lz M& | C con

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| RX OUTPUT FREQUENCY | 52 to | 88 N | lHz

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| RX GAIN | LNC | confid | gurati

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| | LNA | confi | gurati

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 | Reecei | ver ga | ain: 30 | to 55 | dB, 1

 | dB ste | ps, M | &C co
 | ntroll | ed L
 | .NA ga | ain: 50 | - 55 (| dB
 | |
| RX NOISE FIGURE | LNC: 0.9 dB (65K) MAX / Optional 0.63 dB (45K) and 0.49 dB (35K), LNA: 0.43dB (30K) | |

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| RX LINEARITY | -35 dBc intermod, MAX | |

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| RX PHASE NOISE | | |

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 | -80 d | Bc/Hz
 | max (| @ 10K | Hz |
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| RX OUTPUT IMPEDANCE | 50 o | hms (| 75 ohi

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| ALARM RELAYS | FOR | M C fo | C

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| POWER | FORM C for Summary Alarm; Isolated 100 to 250 VAC; 47 to 63 Hz optional 48V DC | |

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| 1106 | 100 | |

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| M&C | | | VAC;

 | 47 to
 | | optic | nal 4 | 8V DC
RS-232 |

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| | SNM | to 250
P, HT1 | VAC;
TP, Teli

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 | 180W | 200W | 300W | 350W
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| TEMPERATURE HUMIDITY ALTITUDE RAIN WIND VIBRATION SHOCK TYPICAL POWER CONSUMPTION (VA) PRIME POWER RECOMMENDATION WEIGHT (lbs.) (kg.) TRANSCEIVER SIZE: - 0W | -50 t
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| TEMPERATURE HUMIDITY ALTITUDE RAIN WIND VIBRATION SHOCK TYPICAL POWER CONSUMPTION (VA) PRIME POWER RECOMMENDATION WEIGHT (Ibs.) (kg.) TRANSCEIVER SIZE: - 0W - 2W, 5W | -50 t | to 2500 P, HTT of the state of | FP, Teli
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| | C-Band Series 1 dB COMPRESSION POINT (dBm) TX GAIN TX GAIN RANGE TX LEVEL FLATNESS TX GAIN OVER TEMPERATURE TX INPUT IF FREQUENCY TX INPUT IF IMPEDANCE TX INPUT IF LEVEL TX OUTPUT FREQUENCY TX FREQUENCY STEP SIZE TX PHASE NOISE INTERMOD SPURIOUS RX INPUT FREQUENCY RX FREQUENCY STEP SIZE RX OUTPUT FREQUENCY RX FREQUENCY STEP SIZE RX OUTPUT FREQUENCY RX GAIN RX NOISE FIGURE RX LINEARITY RX PHASE NOISE RX OUTPUT IMPEDANCE ALARM RELAYS | C-Band Series 1 dB COMPRESSION POINT (dBm) 8 TX GAIN TX GAIN RANGE TX LEVEL FLATNESS TX GAIN OVER TEMPERATURE TX INPUT IF FREQUENCY TX INPUT IF IMPEDANCE TX OUTPUT FREQUENCY TX PHASE NOISE RX INPUT FREQUENCY EC = PC = | C-Band Series ow zw 1 dB COMPRESSION POINT (dBm) 8 33 TX GAIN 31 64 TX GAIN RANGE +6/-20 dB TX LEVEL FLATNESS +/- 1.5 dB TX GAIN OVER TEMPERATURE +/- 1.5 dB TX INPUT IF FREQUENCY 52 to 88 M TX INPUT IF IMPEDANCE 50 ohms (7 TX INPUT IF LEVEL -30 dBm for TX OUTPUT FREQUENCY EC = 5.850 PC = 6.425 PC = 6.425 TX PHASE NOISE -60 dBc/Hz INTERMOD -33 dBc m SPURIOUS -55 dBc m RX INPUT FREQUENCY EC = 3.625 PC = 3.400 PC = 3.400 RX FREQUENCY STEP SIZE 1 MHz M& RX OUTPUT FREQUENCY 52 to 88 M RX OUTPUT FREQUENCY 52 to 88 M RX NOISE FIGURE LNC: 0.9 di RX LINEARITY -35 dBc int RX PHASE NOISE -60 dBc/Hz -90 dBc/Hz -90 dBc/Hz -90 dBc/Hz -90 dBc/Hz -90 dBc/Hz -90 dBc/Hz <tr< td=""><td>C-Band Series 1 dB COMPRESSION POINT (dBm) 1 dB COMPRESSION POIN</td><td>C-Band Series ow zw 5w 10w 1 dB COMPRESSION POINT (dBm) 8 33 37 40 TX GAIN 31 64 68 71 TX GAIN RANGE +6/-20 dB variable in TX LEVEL FLATNESS +/- 1.5 dBp-p max / 5 TX GAIN OVER TEMPERATURE +/- 1.5 dB max TX INPUT IF FREQUENCY 52 to 88 MHz TX INPUT IF IMPEDANCE 50 ohms (75 ohms op TX INPUT IF LEVEL -30 dBm for rated out TX OUTPUT FREQUENCY EC = 5.850 to 6.425 G PC = 6.425 to 6.725 G PC = 6.425 to 6.725 G TX FREQUENCY STEP SIZE 1 MHz M&C controller TX PHASE NOISE -60 dBc/Hz max @ 100 SPURIOUS -55 dBc max out of ba RX INPUT FREQUENCY EC = 3.625 to 4.200 G PC = 3.400 to 3.640 G PC = 3.400 to 3.640 G RX FREQUENCY STEP SIZE 1 MHz M&C controller RX OUTPUT FREQUENCY 52 to 88 MHz RX OUTPUT FREQUENCY 52 to 88 MHz RX NOISE FIGURE LNC: 0.9 dB (65K) MA RX LINEARITY -35 dBc intermod, MA <</td><td>C-Band Series ow zw 5w 10w 20w 1 dB COMPRESSION POINT (dBm) 8 33 37 40 43 TX GAIN 31 64 68 71 74 TX GAIN RANGE +6/-20 dB variable in 1 dB s TX LEVEL FLATNESS +/- 1.5 dBp-p max / 500 MHz TX GAIN OVER TEMPERATURE +/- 1.5 dB max TX INPUT IF FREQUENCY 52 to 88 MHz TX INPUT IF IMPEDANCE 50 ohms (75 ohms optional only only only only only only only onl</td><td>C-Band Series ow zw sw low 20W 30W 1 dB COMPRESSION POINT (dBm) 8 33 37 40 43 44.8 TX GAIN 31 64 68 71 74 75.8 TX GAIN RANGE +6/-20 dB variable in 1 dB steps variable variable in 1 dB steps variable variable variable variable variable</td><td>C-Band Series ow zw sw low zow sow 40w 40w</td><td>C-Band Series ow zw sw low zow sow dow sow <th< td=""><td>C-Band Series ow 2w sw 1ow 2ow 3ow 4ow 5ow 6ow 1 dB COMPRESSION POINT (dBm) 8 33 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*all specifications subject to change 03/13/19 3887710



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