

Configurable Vehicular Satcom Pallet - CVSP



Specifications

The Globecomm Systems line of Configurable Vehicular Satcom Pallets can be provided as single or multi-band terminals for operation on X-band military satellites as well as C and Ku-band commercial satellites. The product design takes advantage of the latest proven developments in antenna technology, earth station equipment technology, and earth station management system technology using a modular approach which allows the user to custom configure the system to their specific applications. The terminals are Tactical Capable; yet take advantage of the cost savings inherent in COTS methodology of specifying and manufacturing telecommunications equipment. The rapidly deployable terminal may be configured to operate in any or all of three bands: C, X, or Ku, and is available with a choice of High-Power Amplifiers, either multi or single-band TWTA's, each with various power level options. Each system can be tailored to meet the needs and cost objectives of the specific mission.

- Quick deployment
- Simple satellite acquisition
- Single band and multi-band operation
- Compliant with DSCS and INTELSAT
- Mounting on many military vehicles
- Ability to operate without vehicle
- Environmental Control Unit (ECU)
- Single thread or fully redundant electronics
- GPS based frequency reference and distribution
- Integrated Diesel Generator
- Outdoor mounted High-Power Amplifiers
- Militarized Commercial-off-the-shelf (COTS) available for tactical applications
- Qualified per MIL-810E
- Ka band ready antenna

Globecomm provides superior quality, reliable and innovative networks.

System Specifications

The specifications below represent the performance specifications for the Tri-Band Configuration of the Configurable Vehicular Satcom Pallet. These also represent the typical specifications for the single or dual band configurations. EIRP specifications can vary depending upon the specific requirement.

RF Specifications

	C-Band	Ku-Band	X-Band
Receive Frequency	3.625 to 4.200 GHz	10.95 to 12.75 GHz	7.25 to 7.75 GHz
Transmit Frequency	5.850 to 6.425 GHz	14.00 to 14.50 GHz	7.90 to 8.40 GHz
Step Size	1 kHz	1 kHz	1 kHz
Output Power	325 Watts	325 Watts	450 Watts
LNA Noise Temperature	35 Degrees K	65 Degrees K	50 Degrees K
Frequency Stability	$\pm 5 \times 10^{\circ}$ day (Internal Ref) at constant temperature	$\pm 5 \times 10^{\circ}$ day (Internal Ref) at constant temperature	$\pm 5 \times 10^{\circ}$ day (Internal Ref) at constant temperature
IF Frequency	70 or 140 MHz	70 or 140 MHz	70 or 140 MHz
Phase Noise	IESS 308/309	IESS 308/309	IESS 308/309
G/T (Elevation 7.5 degrees)	18.3 dB/K	22.3 dB/K	26.0 dB/K
EIRP	65.2 dBw	67.2 dBw	70.5 dBw
Polarization	Linear or Circular	Linear	Circular

Modem Specifications

System	SLM-3650
Operating Frequency Range	50 to 180 MHz in 100 Hz Steps
Digital Data Rate	4.8 kbps to 5 Mbps, 1 bps Steps
Modulation Types	BPSK, QPSK, Offset QPSK, 8PSK
Stability	2 x 10' Internal Reference
Energy Dispersal	CCITT, V.35/Frequency Stability
Phase Noise	IESS 308/309
G/T (Elevation 7.5 degrees)	18.3 dB/K
EIRP	65.2 dBw
Polarization	Linear or Circular

Modulation Specifications

System	SLM-3650
Output Power	-5 to -30 dBm 0.1 dB Step

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System	SLM-3650
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Demodulation Specifications

System	SLM-3650
Input Power (Desired Carrier)	-30 to -55 dBm
Maximum Composite	-5 dBm or +40 dBc
Carrier Acquisition Range	± 35 kHz, Selectable
Elastic Buffer	32 to 262, 144 bits, Selectable



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