

PRECONFIGURED MODULAR SOLUTION FOR SATCOM TERMINALS

CPI Satcom & Antenna Technologies' New Modular Terminals
delivers reliable communications and significant savings for service providers



FEATURES:

- Complete Out-of-the-Box Satcom Gateway and User Terminals
- One-Stop-Shop for fully engineered, cost effective and fast delivery solutions
- Guaranteed system level performance with unmatched reliability
- Suited for data, video and voice applications
- 5-year Comprehensive Terminal Warranty
- Compliant with FCC, ITC 580, Intelsat, Eutelsat, AsiaSat, CE, RoHS and REACH

PRECONFIGURED MODULAR SOLUTIONS

CPI Satcom & Antenna Technologies' (CPI SAT) New Preconfigured Modular Solution for Satcom Terminals are the solution to the Satcom service provider's search for cost effective, quick delivery, ground segment equipment across the application spectrum. Designed and built by CPI SAT, the leading global supplier of satellite ground station products and systems, reliable connectivity at an affordable price.

Modular Design Ensures Economical and Superior Performance

The pre-configured Ku-Band terminals are fully engineered for optimum performance in a wide range of locations and applications:

- User Terminal Configurations: 1.2m, 1.8m and 2.4m antennas
- Gateway Terminal Configurations: 3.8m, 4.8m and 6.3m antennas
- Designed to meet certain EIRP & G/T specifications
- Supplied with RF kits that include BUCs and LNBS, mounting hardware and transmit and receive cabling
- Unmatched reliability and true cost savings
- Modern-agnostic for universal applications
- Compliant to major standards and regulations:
 - ITU 580, FCC, Intelsat, Eutelsat and AsiaSat
 - CE, RoHS, REACH

OPTIONS:

- Redundant RF equipment
- G/T choices in a range of terminal apertures
- Increased EIRP capabilities to fit requirements
- Dual Polarization Operation (Gateway Terminals)
- Extended Inter Facility Link (IFL)

FEATURES:

- Ideally suited for data trunking, broadcast/media, call extension, oil & gas exploration
- Efficient design for reliable on-air performance
- Lower capital expenses and true cost savings due to modular production and economies of scale
- Guaranteed Performance
- Single thread RF equipment standard

One-Stop-Shop

CPI SAT is the world's only single-source supplier for satellite communications ground station products. The new modular terminals are designed and built with CPI SAT's antenna, controls, RF electronics plus other components. The single-source design and integration concept ensures:

- Guaranteed performance at system level
- Fast and complete delivery from one location
- 5-year Comprehensive Warranty
- Responsive 24/7 Customer Care



For more information contact
Customer Care at +1 (770) 689-2040
customer care sat@cpii.com
www.cpii.com/antennas

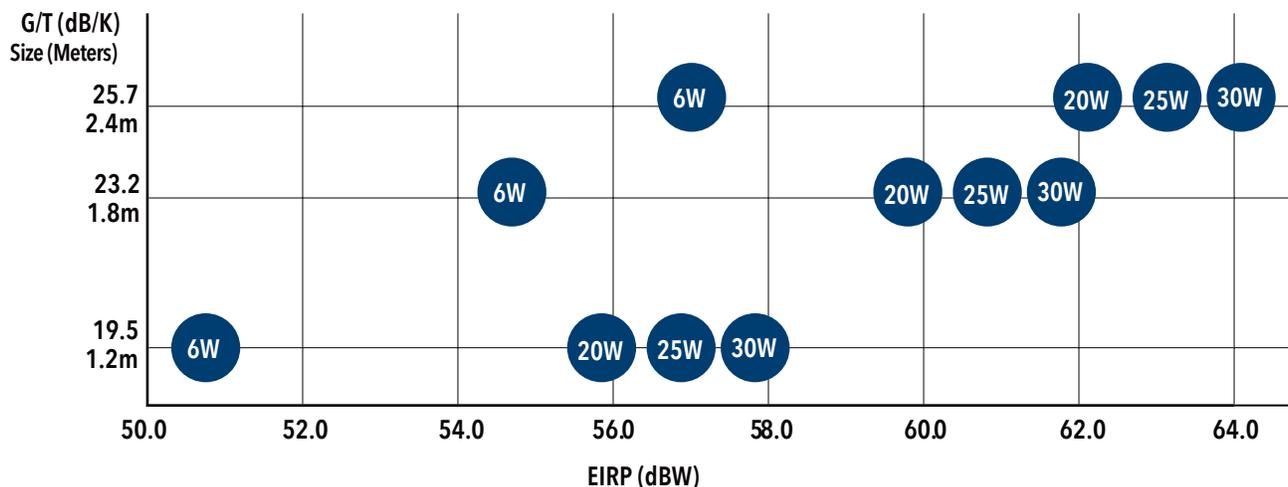
Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design. © 2021 Communications & Power Industries LLC. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI.

USER TERMINALS

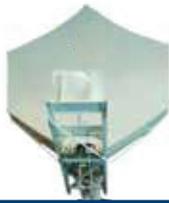


ANTENNA SIZE			
Aperture	1.2M	1.8M	2.4M
TERMINAL PERFORMANCE			
Terminal G/T @ 11.725 GHz	19.5 dB/K	23.2 dB/K	25.7 dB/K
BUC Power / Saturated EIRP @ mid-band (Non-redundant)	6W 20W 25W 30W	50.8 dBW 56.1 dBW 57.0 dBW 57.8 dBW	54.5 dBW 59.8 dBW 60.7 dBW 61.5 dBW
Receive Frequency Range	10.70 - 11.70 GHz, 11.70 - 12.75 GHz (switch selectable)		
Transmit Frequency Range	13.75 - 14.50 GHz		
ANTENNA MECHANICAL			
Antenna Optics	Prime Focus , offset feed		
Model Number	1134	1194	1244
Reflector	1 segment SMC, 0.8 F/D		4 segment SMC, 0.8 F/D
Mast Pipe Size	2.5" SCH 40 Pipe (2.875" OD)	5" SCH 40 (5.56"OD)	6.0" SCH 40 (6.63"OD)
EL Adjustment Range	5-90° cont. fine adjust		
AZ Adjustment Range	±20° fine, 360° continuous	±45° fine, 360° continuous	±30° fine, 360° continuous
Mount Type	Elevation over azimuth		
RF Electronics Weight	Tier 3 (20 lb Max.)		
ANTENNA ENVIRONMENTAL			
Wind Loading - Operational	50 mph (80 Km/h)		
Wind Loading - Survival	125 mph (200 Km/h)		
Rain	1/2" / hr		
Operating Temperature Range	-40° to 55° C		
Ice, Survival	1/2" radial		
Atmospheric Conditions	Salt, pollutants and contaminants as encountered in coastal and industrial areas		
OTHER SPECIFICATIONS			
SSPB Electrical Power at Antenna	6W:12-30 VDC, 48 W max 20W: 130W max		20W, 25W, 30W: 90-265 VAC/50-60 Hz 25W: 180W max W: 200W max
SSPB External Reference Required	10 MHz, -5 to +5 dBm on IF input (Internal Reference option, except for 6W)		
LNB Electrical Power	10-24 VDC, 200 ma, supplied by CFE modem		
LNB Reference Frequency	Internal (3ppm), or external 10 MHz, -5 to +5 dBm on IF input from CFE modem		

TERMINAL PERFORMANCE OPTIONS



GATEWAY TERMINALS



ANTENNA SIZE			
Aperture	3.8M	4.8M	6.3M
TERMINAL PERFORMANCE			
Terminal G/T @ 11.7 GHz	29.5 dB/K	32.0 dB/K	34.5 dB/K
BUC Power / Saturated EIRP @ mid-band (Non-redundant)	40W 60W 100W 125W	68.3 dBW 70.0 dBW 72.3 dBW 73.2 dBW	70.2 dBW 72.0 dBW 74.2 dBW 75.1 dBW
Receive Frequency Range	Select 10.95 - 11.70 GHz, 11.70 - 12.20 GHz, or 12.25 - 12.75 GHz		
Transmit Frequency Range	13.75 - 14.50 GHz		
ANTENNA MECHANICAL			
Antenna Optics	Dual Offset	Compact Cassegrain	
Sidelobe Performance	ITU-RS-580, FCC		
RF Specification	975-2936	975-5054	975-5055
Mount Configuration	Elevation over azimuth pedestal		
Drive Type	Jack Screw		
Azimuth Travel	190° (2 segments @ 120° each)	120° continuous	200° (2 segments @ 120° each)
Elevation Travel	0° - 90° continuous		
TERMINAL ENVIRONMENTAL			
Wind Loading - Operational	45 mph (72 km/h) gusting to 60 mph (97 km/h)		
Wind Loading - Survival	125 mph (200 km/h) @ 58°F (15°C) any position		
Rain	Up to 4 in/h (10 cm/h)		
Operating Temperature Range	125 mph (200 km/h) @ -15° to 50°C		
Ice, Survival	1 in (2.5 cm) on all surfaces or 1/2 in (1.3 cm) on all surfaces with 80 mph (130 km/h) winds		
Atmospheric Conditions	As encountered in coastal regions and/or heavy industrialized areas		
OTHER SPECIFICATIONS			
SSPB Electrical Power at Antenna	Voltage: 90-265 VAC/ 50-60 Hz 40W: 250W max 60W: 260W max 100W: 580W max 125W: 600W max		
SSPB External Reference Required	10 MHz, -5 to +5 dBm on IF input (Internal Reference Optional)		
LNB Electrical Power	15-24 VDC, 200 ma, Supplied by CFE Modem for non-redundant LNBs or from LNB power supply with redundancy system option		
LNB Reference Frequency	Internal Baseline (±5 KHz); External 10 MHz, -5 to +5 dBm on IF input option		

TERMINAL PERFORMANCE OPTIONS

