Modular Terminals provide reliable communications and significant savings for service providers.

**Terminology**

- **Aperture**: Measurement before a system where light is collected.
- **G/T (dB/K)**:比值 of the terminal's noise temperature divided by the ambient temperature.
- **EIRP (dBW)**: Effective Isotropic Radiated Power.
- **Receive Frequency Range**: Selectable options for the frequency range the terminal can receive.
- **Transmit Frequency Range**: Frequency range over which the terminal can transmit.
- **Wind Loading - Operational**: Maximum wind speed to which the terminal is designed to operate.
- **Wind Loading - Survival**: Maximum wind speed to which the terminal is designed to withstand.
- **Rain**: Maximum rainfall rate the terminal can withstand.
- **Operating Temperature Range**: Temperature range over which the terminal operates.
- **Ice, Survival**: Maximum ice load the terminal can withstand.
- **Atmospheric Conditions**: Environmental conditions the terminal is designed to operate in.

**Antenna Performance**

- **Aperture**
  - 3.8m
  - 4.8m
  - 6.3m

- **G/T @ 11.7 GHz**
  - 34.5 dB/K
  - 32.0 dB/K
  - 29.5 dB/K

- **BUC Power / Saturated EIRP**
  - 40W
  - 68.3 dBW
  - 70.2 dBW
  - 72.0 dBW
  - 74.2 dBW
  - 76.3 dBW
  - 77.2 dBW
  - 100W
  - 125W

- **Receive Frequency Range**: Selectable from 10.95 to 11.70 GHz, 11.70 to 12.20 GHz, or 12.25 to 12.75 GHz.

- **Transmit Frequency Range**: From 13.75 to 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.
- **Azimuth Tavel**: 190˚ (2 segments @ 120˚) or 120˚ (continuous).
- **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**: -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.
- **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.

**Gateway Terminology**

- **Antennas**

**CPI Communications & Power Industries**

- **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**
- **Ideally suited for data, video and voice applications**
- **5-year comprehensive terminal warranty**
- **Compliant with FCC, ITU 580, Intelsat, Eutelsat, AsiaSat, CE, RoHS, and REACH**
CPI Satcom & Antenna Technologies’ (CPI SAT) new Modular 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, the Modular Terminals provide 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: 1.2, 1.8 and 2.4m antennas
- Gateway Terminal configurations: 3.8, 4.8 and 6.3m antennas
- Designed to meet certain EIRP and G/T specifications.
- Supplied with RF kits that include BUCs and LN Bs, 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 S80, FCC, Intelsat, Eutelsat and AsiaSat
  - CE, RoHS, REACH

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 antennas, controls, RF electronics and other components. The single-source design and integration concept ensures
- Guaranteed performance at system level
- Fast and complete delivery from one location
- Comprehensive 5-year warranty
- Available installation, testing and maintenance services
- Responsive 24x7 Customer Care

For more information contact CustomerCare, at 770-498-2040 or via email at customerscaresat@cpi&com, or visit us online at www.cpi.com/antennas

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI.
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