

# MILLI S>T<sub>EX</sub>



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**MILLI S>T<sub>EX</sub>** lightweight satellite terminal solution is tailored to meet C-130 Hercules mission requirements. Designed for Ka-band, Milli SAT EX offers unmatched performance in an extremely compact, small package of 22kg weight, including a Multi-Purpose Shoulder Panel System. Optimized for voice, video, and data transmission.

**MILLI S>T<sub>EX</sub>** supports Roll-On / Roll-Off (RORO) C-130 airborne applications without requiring any modification to the aircraft. The unit’s radome does not obstruct existing aircraft surfaces, other instruments or antennas while providing high bandwidth data throughput exceeding 30 Mbps with HTS satellites.

**MILLI S>T<sub>EX</sub>** supports mil-ka band and is compatible with Inmarsat’s GX network. Fully FAA-compliant and designed to operate on all C-130 variants. A turn-key solution including a dual-modem integrated transit case that accesses various Ka-band networks simultaneously.

| RF PERFORMANCE           | KA BAND                                                   |
|--------------------------|-----------------------------------------------------------|
| Tx Frequency             | 29-31GHz OR 27.5 - 30GHz                                  |
| Rx Frequency             | 19.2-21.2GHz OR 17.5 - 20GHz                              |
| Max G/T                  | 12 dB/K                                                   |
| Polarization             | RHCP/LHCP (co-pol / cross-pol)                            |
| Max EIRP                 | 48dBW (12W BUC)                                           |
| Tx / Rx isolation        | >60 dB                                                    |
| Panel Size               | 20X48 CM (7.9X18.8")                                      |
| SYSTEM                   |                                                           |
| Azimuth                  | Continues coverage over full 360°                         |
| Elevation                | -8° to 90°                                                |
| Control Technique        | Combined IMU / RSSi / GPS                                 |
| Velocity                 | Azimuth >200° / Sec, Elevation > 200° / Sec               |
| Initial Acquisition Time | <30 sec                                                   |
| Re-Acquisition time      | <100ms (depends on modem)                                 |
| Management               | Web Interface/ Open AMIP 1.16/ SW ICD                     |
| Power Input              | 22 - 56v DC                                               |
| Power Consumption        | Rx Only ~ 25Watts<br><br>TOTAL – 150 Watts (12W Buc PSAT) |
| Interfaces               | GPS, RS-232, Ethernet, TX/RX, Other                       |
| Weight                   | 22kg (48lb) including Radome and Hatch Mount              |
| System Size              | 38 X 65 CM (15x26")                                       |