



A mission often evolves in unpredictable ways: changes in the duration of stay, increased bandwidth demand over time or the need for rapid regrouping on a sudden notice.

This calls for a flexible way of being able to quickly and cost efficiently adjust to changes in the environmental conditions and needs, including means of transportation.

The SWE-DISH Satellite Systems, TWO-IN-ONE concept, offers the user a mission configurable solution that is cost effective, and the tools necessary to accommodate these unpredictable changes, regardless whether you are on a broadcast, government or military mission.

TWO IN ONE

By combining some of the most compact and versatile SWE-DISH products in a smart way, the IPT Suitcase, the market's quickest-to-air and easy-to-use system,

and the FA150K Lite, gives your mission the flexible communication solution you need. At a cost less than investing in two separate systems - all packed into airline checkable transport cases (IATA). This solution gives more flexibility to your satellite communication solution.

EASE OF USE AND DEPLOYMENT


The FA150K Lite is assembled and disassembled in just a few minutes, requiring no tools. Once the FA150K antenna has been deployed, the IPT Suitcase may be connected. After alignment of the FA150K antenna, the pointing solution is easily retrieved from the IPT Suitcase and the configuration is up and running. The FA150K antenna provides a 5 dB better link margin than the IPT Suitcase antenna, which directly translates into increased bandwidth - at just a fractional cost compared to adding a second satellite terminal to the fleet.

KEY FEATURES

- Flexible and cost effective - maximum operational flexibility
- Combat proven - Rugged and durable construction
- High performing antenna - Gregorian offset and carbon fiber
- Airline checkable - Designed for easy transportation and IATA weight concept
- Flexibility - Optional use IPT Suitcase as a light, compact and fully integrated HPA and base-band package
- Quick-to-air - no tools required

FEBRUARY 2008 VERSION 1.1

SPECIFICATIONS: SWE-DISH® FA150K TWO-IN-ONE

<p>ANTENNA PERFORMANCE - FA150K LITE</p> <p>Antenna model SWE-DISH 150K EDF</p> <p>Antenna concept Gregorian type dual optics. Elliptical 4-piece main reflector in carbon fiber with size 1.5x1.35 m (59.1x53.1 in), folding feed arm and sub reflector</p> <p>Side lobe performance 29-25 Log θ dBi</p> <p>Polarization Linear orthogonal, < 1° accuracy</p> <p>Polarization performance XPD >35 dB</p> <p>TRANSMIT PERFORMANCE</p> <p>Transmit frequency 13.75 - 14.5 GHz</p> <p>Transmit gain, FA150K 45.0 dBi at mid-band</p> <p>Transmit gain, Suitcase 38.4 dBi at mid-band</p> <p>RECEIVE PERFORMANCE</p> <p>Receive frequency 10.95 - 12.75 GHz (Suitcase)</p> <p>Receive gain, FA150K 43.2 dBi at mid-band</p> <p>Receive gain, Suitcase 38.2 dBi at mid-band</p> <p>G/T with FA150K 23 dB/K at 20° elevation and 20°C (68°F), clear sky</p> <p>G/T with Suitcase 19.3 dB/K at 20° elevation and 20°C (68°F), clear sky</p> <p>EIRP CAPABILITY</p> <p>EIRP Capability, with FA150K antenna Up to 59 dBW</p> <p>EIRP Capability, Suitcase stand-alone Up to 54 dBW</p> <p>ANTENNA TRAVEL RANGE - FA150K LITE</p> <p>Azimuth range Manual coarse: ±360° Turnbuckles mounted: ±25° coarse, ±10° fine</p> <p>Elevation range 0-90°</p> <p>PLATFORM LEVELING - FA150K LITE</p> <p>Pitch and roll Built in compensation for pitch and roll by using platform independent reference to true vertical/horizontal</p> <p>ENVIRONMENTAL PERFORMANCE</p> <p>Ambient temperature Operational: -20°C to +40°C (-4°F to +104°F) Storage: -40°C to + 70°C (-40°F to +158°F)</p> <p>Solar radiation Operational up to 1,200 W/m²</p> <p>Wind speed Operational up to 20m/s (44 mph), windstays mounted</p> <p>Operating humidity 95% non-condensing</p> <p>Rainfall Maximum 100 mm/h (4 in/h)</p> <p>Sealing IPT Suitcase sealed to IP54</p> <p>Altitude Operational: Up to 3,000 m (9,850 ft) Survival: Up to 10,000 m (32,800 ft)</p>	<p>ANTENNA FEATURES - FA150K LITE</p> <ul style="list-style-type: none"> • Azimuth: Coarse and precision fine adjustment • Elevation: Generally 0° - 90° with fine adjustment • Polarization: +/-100°, 1° accuracy, motorized • True Elevationmeter with 0.1° resolutions • SatViewer signal analyzer for easy, precise antenna alignment incl cross polar rejection & satellite ID <p>ANTENNA OPTIONS</p> <ul style="list-style-type: none"> • 3 port feed for co-polar operation • HPA flight cases • Base-band flight cases • Detachable rear antenna support for installation at places with limited space (OB Van camera platform) • The FA150K Lite can be delivered as an option to the FA150K Fly-Away antenna <div style="text-align: center;">  </div> <p>MECHANICAL</p> <p>Weight - FA150K Lite 56 kg (123.4 lbs)</p> <p>Weight - IPT Suitcase 39 kg (86 lbs)</p> <p>APPROVALS & COMPLIANCE</p> <p>FA150K Lite Eutelsat/Intelsat compliant, station approvals, FCC license E980294</p> <p>IPT Suitcase FCC license E030197 Eutelsat EA-V042 Intelsat IA097AA0 EuropeStar ES-ME-39 Hispasat HIS-ET-96221-10026-SWE IPStar, ref no 05/001 AsiaSat TO8/26-10-05/001</p> <p style="text-align: right; font-size: small;">Specifications are subject to change without notice, and this datasheet will not form part of any contract.</p>
---	--