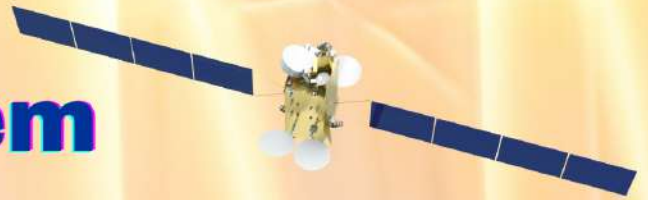


Smart Satellite Data Link System



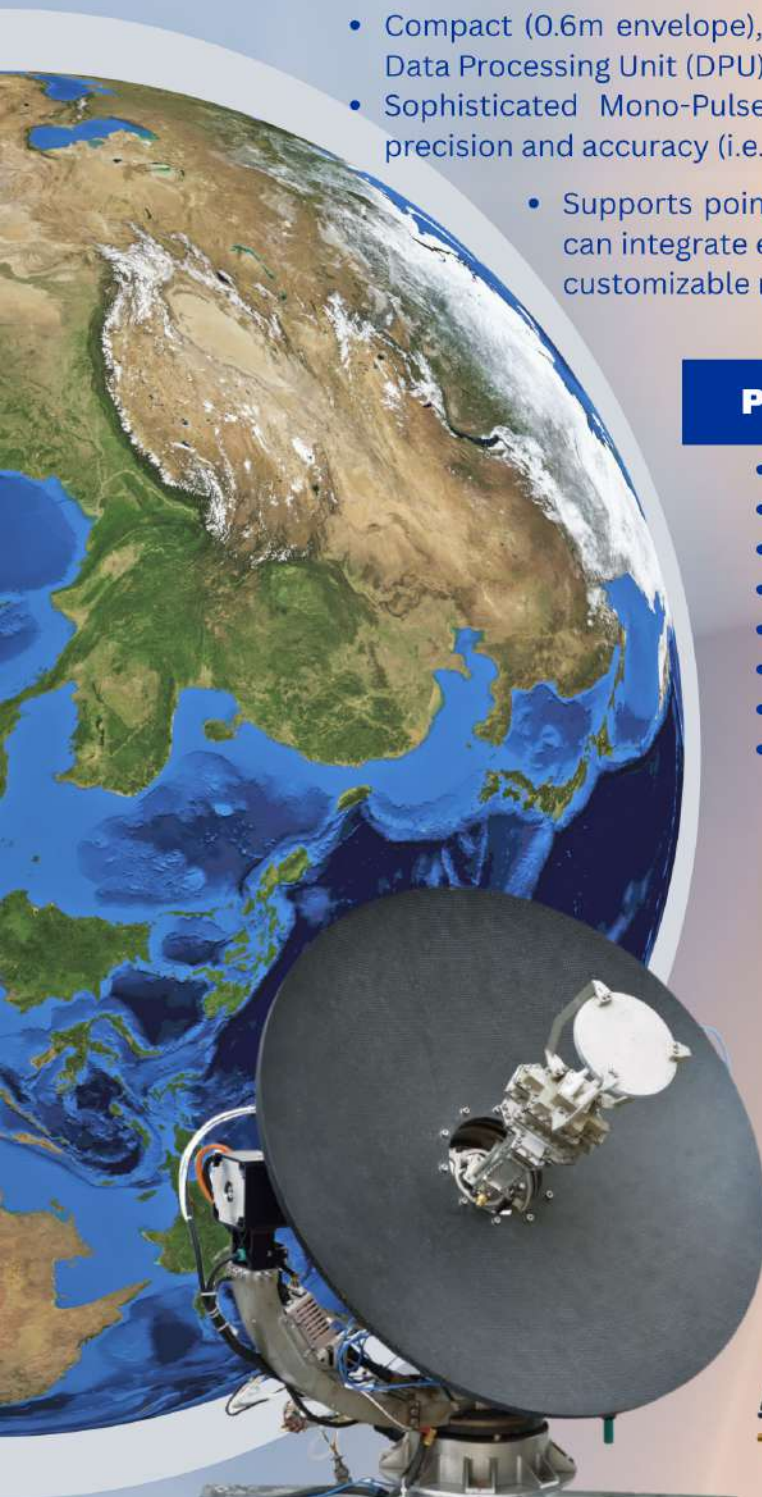
- Designed and developed by SUPARCO for “Communication on-the-Move (COTM)” requirements for commercial users support
- Provides secure, encrypted and robust command and data (i.e. telemetry, video and voice) communication services to airborne, ground and sea based platforms within coverage area of any Ku-band communication satellite
 - Compact (0.6m envelope), lightweight (<20kg) with two Line Replaceable Units: Data Processing Unit (DPU) & Antenna Control Unit (ACU)
 - Sophisticated Mono-Pulse based Tracking scheme to provide high tracking precision and accuracy (i.e. ± 0.2 degrees).
- Supports point-to-point and network-based communications and it can integrate easily into various commercial systems by means of its customizable mechanical and electrical interfaces

Physical Specs

- Envelope: 0.670m (H) x Dia (0.634 m)
- Mass: ≈ 18 kg
- Azimuth Travel: 360° Continuous
- Elevation Travel: 5° to 85°
- Polarization Travel: -90° to 90°
- Tracking Accuracy: $\pm 0.2^\circ$
- Tracking Agility: $40^\circ/s$
-

Electrical Specs

- Nominal Power: 600 W (max.) @ 28V bus
- Uplink Frequency: 13.75 ~ 14.00 GHz
- Downlink Frequency: 12.50 ~ 12.75 GHz
- Uplink EIRP: 50.0 dBW
- Receive G/T: 6 dB/K
- Uplink Data Rate: up to 10 Mbps
- Downlink Data Rate: up to 512 Kbps
- Tracking Scheme: RF Mono-pulse



Tracking Receiver



Antenna Control Unit



Data Processing Unit



SUPARCO

Pakistan Space & Upper
Atmosphere Research Commission



SUPARCO Business Solutions

- 📍 Building 18, Street 12, G-8/1, Muave Area, Islamabad
- ✉ businessdevelopment@suparco.biz, care@suparco.biz
- ☎ +92 51 9075287, 9107235 📞 +92 317 1719268