



CREIDEAS

## Ensuring Continuous Satellite Communication On The Move



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**Creideas (Creideas Technology Pte Ltd)**, a wholly owned company of Synesys (Synesys Technologies Holdings Pte Ltd), is a Singapore-based corporation operating in 15 countries across Asia and Southeast Asia. Specializing in information communications technology (ICT), Creideas focuses on three key areas: Satellite Technology, Radar Technology, and IoT Sensors Technology.

### Satellite Technology

Creideas excels in the design and development of antennas specially for on-the-move applications. With expertise in satellite communications, the company offers innovative solutions for various industries, including defense, transportation, maritime, and telecommunications. Creideas' antenna technology ensures reliable and efficient communication on moving platforms, enabling seamless connectivity in challenging environments.

### Radar Technology

Creideas is a leader in radar technology, providing advanced solutions for monitoring and surveillance purposes. The company's radar systems are designed to detect and track objects, providing real-time situational awareness for defense, security, and aerospace applications. Creideas' radar technology incorporates cutting-edge algorithms and signal processing techniques to deliver accurate and actionable data.

### IoT Sensors Technology

Creideas leverages the power of the Internet of Things (IoT) by developing and implementing sensor-based solutions. The company offers a range of IoT sensors designed to collect and transmit data from various sources, enabling businesses to monitor and control their assets remotely. Creideas' IoT sensor technology finds applications in sectors such as smart cities, agriculture, manufacturing, and environmental monitoring.

Effective decision-making is greatly enhanced by the ability to continuously receive and transmit real-time information while on the move. Satellite communications play an increasingly crucial role in maintaining constant connectivity and facilitating work in remote locations or challenging situations. The accuracy and precision with which ground station antennas can be aimed at a specific satellite while stationary or tracked while in motion are vital for ensuring uninterrupted connectivity.



| Model   | ASP9  | ASP8   | ASP6  |
|---|---|--|---|
| FEATURES (for GEO satellites)                 | <ul style="list-style-type: none"> <li>Ultra-low profile</li> <li>Powerful gain to meet wide-beam satcom demands</li> <li>Luneburg Lens design</li> </ul> | <ul style="list-style-type: none"> <li>Ultra-low profile and small foot print</li> <li>All-in-one terminal optimized for GEO HTS applications</li> <li>Efficient hybrid Lens-ESA design</li> </ul> | <ul style="list-style-type: none"> <li>Small form factor</li> <li>Supports OTM and flyaway mode on GEO HTS</li> <li>Efficient hybrid Lens-ESA design</li> </ul> |
| Operating Frequencies                         |   | RX: 10.70~12.75GHz   | TX: 13.75~14.5GHz   |
| G/T @50°elevation angle#                      | Max 12.50dB/K @ 12.5GHz   | Max 11dB/K @ 12.50GHz  | Max 9.5dB/K @ 12.50GHz  |
| EIRP @50°elevation angle#                     | Max 51dBW @ 14.25GHz  | Max 45dBW @ 14.25GHz   | Max 40dBW @ 14.25GHz  |
| <b>Unique Feature</b>                         | <b>Achieve max. G/T and EIRP at any arbitrary elevation angle upon customer requirements</b>  |  |   |
| Polarization                                  | -90° ~ 90° software defined linear  |  |   |
| Cross-polarisation isolation (-1dB beamwidth) | > 30dB  |  |   |
| Locking time (power ON)                       | ≤120 seconds  |  |   |
| Tracking range                                | Azimuth 360° (mechanical) Elevation 25°~85° (electronic)  |  |   |
| Tracking accuracy                             | ≤ 0.2° RMS  |  |   |
| Re-acquisition time                           | Re-acquire immediately after < 10 minutes blockage  |  |   |
| Enclosure Protection                          | IP65  |  |   |
| Working temperature (ambient)                 | -40°C ~ 65°C  |  |   |
| Power supply                                  | DC 24V  |  |   |
| Power consumption                             | 550W  | 280W   | 150W  |
| Power supply                                  | DC 24V  | DC 24V   | DC 24V  |
| Dimensions (L*W*H)                            | 1175*1150*120mm (+/-1%)   | 990*960*130mm (+/-1%)  | 650*650*130mm (+/-1%)   |
| Weight  | 63.5 kg (+/-1%)   | 42 kg (+/-1%)  | 18.5 kg (+/-1%)   |
| Modem   | External  | Integrated modem boardcard, eg. IQ200 (can be configured for external modem)   | Integrated modem boardcard, eg. IQ200 (can be configured for external modem)  |

The ability to continuously receive and transmit real-time information on the move leads to more effective decision-making. Satellite communications are increasingly crucial to continuously staying in connection and working in any remote location or situation. How well ground station antennas are aimed at a particular satellite while stationary or track it while on the move is key to stay continuous connected.

Creideas Technologies, a lead edge technology solutions company designs and develops antenna system that will connect all sources. Our antenna systems support satellite communications on-the-move (SOTM), catering to both regular and mission-critical communications.

Based on lens-enhance phased array system technology, they are SWaP-C optimized, low-profile and can be deployed on air, land and sea in any environmental condition. Featuring plug-and-play operation, users enjoy reliable, uninterrupted communications when it matters most.

