

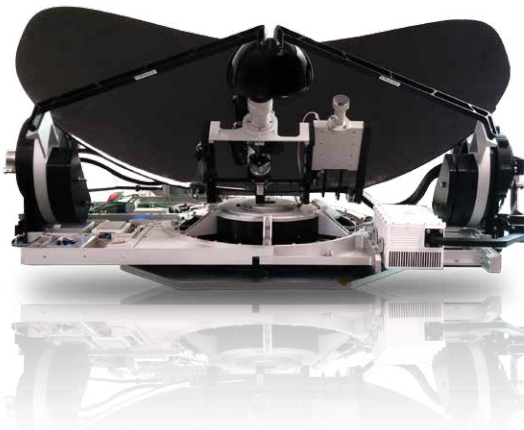


# TACTICAL SATCOMS

## SATCOM ON THE MOVE



### M\_SERIES



# M9MK1



The simple to install and operate COTM broadband satellite antenna has now opened up the market place to provide quality, reliable and secure voice, data and cloud applications, for multiple applications, such as trucks, submarines, SNG, cars, tanks and much more.

| KU/KA-BAND                  | M9MK1-KU  | M9MK1-KA   | M9MK1-KU/KA   |
|-----------------------------|---|--|---|
| Dish Diameter               | 90cm(35")   |  |   |
| Antenna & Stabilizer Weight | 140Kg   |  |   |
| Radome Size                 | 135cm(D) X 68cm(H)  |  |   |
| Frequency                   | TX : 14.0 ~ 14.5GHz<br>RX : 12.25 ~ 12.75GHz  | TX : 29.4 ~ 31.0GHz<br>RX : 19.6 ~ 21.2GHz         | <b>Ku-band</b> TX : 14.0 ~ 14.5GHz / RX : 12.25 ~ 12.75GHz<br><b>Ka-band</b> TX : 29.4 ~ 31.0GHz / RX : 19.6 ~ 21.2GHz                |
| Antenna Gain                | TX : 40.66 dBi@ 14.25GHz<br>RX : 39.25 dBi@ 12.5GHz   | TX : 46.65 dBi@ 30.2GHz<br>RX : 43.10 dBi@ 20.4GHz | <b>Ku-band</b> TX : 40.66 dBi@ 14.25GHz / RX : 39.25 dBi@ 12.5GHz<br><b>Ka-band</b> TX : 46.65 dBi@ 30.2GHz / RX : 43.10 dBi@ 20.4GHz |
| L-band Frequency            | 950 ~ 2150 MHz  |  |   |
| Polarization                | Linear<br>(Polarization Angle 180 adjustable)   | Circular<br>(Automatic Switching LHCP/RHCP)        | <b>Ku-band</b> Linear (Polarization Angle 180 Adjustable)<br><b>Ka-band</b> Circular (Automatic Switching LHCP/RHCP)                  |
| Operating Platform          | 3-Axis (Yaw, Level, Skew)   |  |   |
| Azimuth Angle               | Unlimited   |  |   |
| Elevation Angle             | +10° ~ +85°   |  |   |
| Angular Velocity            | Azimuth ≥ 60°/s    Elevation ≥ 50°/s  |  |   |
| Angular Acceleration        | Azimuth ≥ 200°/sec <sup>2</sup> Elevation ≥ 60°/sec <sup>2</sup>  |  |   |
| Acquisition Time            | ≤ 30 sec  |  |   |
| Re-Acquisition Time         | ≤ 5 sec   |  |   |
| Operating Voltage           | 18 - 36V DC   |  |   |
| Power Consumption           | Normal : 250W with Ka-band 20W BUC / 430W with Ku-band 40W BUC<br>Max : 1100W with Ka-band 20W BUC / 1360W with Ku-band 40W BUC |  |   |
| LNB                         | Universal PLL LNB   | Single PLL LNB                                     | <b>Ku-band</b> Universal PLL LNB <b>Ka-band</b> Single PLL LNB  |
| BUC                         | 40 W  | 20 W   | <b>Ku-band</b> 40 W <b>Ka-band</b> 20 W   |
| Operating Temperature       | -20°C ~ +55°C   |  |   |
| Storage Temperature         | -40°C ~ +70°C   |  |   |
| Humidity                    | Up to 100% @40°C  |  |   |

\*Specifications subject to change without notice