

# TELESAT-7

Rugged, compact multiband antenna for navigation and tracking

Heavy duty omni-directional 7-BAND antenna including active GNSS antenna for through-hole roof mounting on trucks, trailers etc. including full 1/4 external WLAN whip antenna for optimum radiation performance

- LOW PROFILE DESIGN
- NO GROUNDPLANE NEEDED
- 7 BANDS IN ONE INSTALLATION

## ELECTRICAL SPECIFICATIONS

|                              |  |
|------------------------------|--|
| Frequency                    | 790 - 960 MHz, 1561.1 - 1605.4 MHz, 1710 - 2170 MHz, 2401 - 2485 MHz, 2500 - 2690 MHz<br>(GSM850/900/1800/1900/UMTS/LTE/WLAN/GNSS) |
| Impedance                    | 50 ohm   |
| VSWR                         | < 4.0:1 (790-960 MHz ), < 5.0:1 (1710-2170 MHz), < 9.0:1 (2500-2690 MHz)   |
| Satellite System             | GLONASS, GPS, Galileo and BeiDou   |
| Polarisation                 | Linear   |
| Gain                         | 0 dBi (Cellular)   |
| Max. Input Power             | 10 W (GSM/UMTS/WLAN)   |
| LNA Gain                     | 26 dB (GNSS)   |
| Noise Figure                 | 1.35 dB (GNSS)   |
| Supply voltage               | 3 - 5.5 V DC (Fed via cable) (GNSS)  |
| Current consumption, average | 20 mA  |



Datasheet

MECHANICAL SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Color                 | Black  |
| Height                | 53.5 mm  |
| Weight                | 150 g  |
| Diameter              | Ø 92 mm  |
| Mounting              | Bolt-on with adhesive tape for effective sealing   |
| Mounting Place        | On horizontal surface (Max. panel thickness 3 mm with cables to the side or 12 mm with cables straight out of the antenna) |
| Mounting Instruction  | Unobstructed view to satellites  |
| Mounting hole         | Ø 13 - 20 mm   |
| Build-in Depth        | Approx. 17 mm  |
| Materials             | ABS, PE, brass and PCB   |
| Operating Temperature | -40°C to +70°C   |
| Connector             | GSM/UMTS: SMA-female (Red)   |
| Connector2            | WLAN: SMA-female (Black)   |
| Connector3            | GNSS: FME-female (Blue)  |
| Cable                 | 0.15 m, 0.175 m and 0.2 m  |
| Ingress protection    | IP65 (When mounted)  |

ORDERING INFORMATION

|     |   |
|-----|---|
| P/N | 45700IP (Bulk packing)                  |
| P/N | 45700 (Individually packing in Polybag) |

PACKAGING INFORMATION

|      |  |
|------|--|
| Type | Bulk packing or individually packing in Polybag (See "Part No.") |
|------|--|

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