

MTS 3.0

MOBILE TRACKING SYSTEM

MTS 3.0 Dual Dish

The TSC Mobile Tracking System 3.0 (MTS3.0) extends the range of air-to-ground data links. By simplifying the inherent complexities of a tracking system, TSC is able to deliver an easy-to-use unit that minimizes user error and maximizes network performance.

The MTS3.0 is built on the same principles as the MTS2.0, but allows for mounting much larger (or multiple) antennas. This gives an end user the ultimate flexibility to mount a wide range of antennas for any purpose.

SIMPLY HIGH BANDWIDTH.

- RF Tracking for GPS Denied Environments
 - Persistent Systems, Silvus, Aerovironment DDL
- Tracking options include: CoT, Protobuff, Mavlink, ADS-B, etc.
- Radome version for permanent installation in harsh environments
- Lightweight, small form factor
- Minimal mechanical setup required
- Automatic heading calculation
- Radio agnostic, modular design
- Integrated Inertial Navigation System (INS)
- Built in gimbal stabilization
- Web-based Graphical User Interface (GUI)
- Integration assistance & support available
- NDAA 848 Compliant



MTS 3.0 Large Dish

MADE IN

U. S. A.

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MTS 3.0 FEATURES & SPECIFICATIONS

The MTS3.0 is customizable to an operator's unique requirements. The size of the unit lends itself to a more permanent installation but with optional features like gimbal stabilization and continuous heading updates, the MTS3.0 can be completely mobile. There are a number of antenna options for multiple frequency bands. As with all TSC MTS products, the MTS3.0 is radio agnostic.

Includes up to 3 cases

(dependent on options purchased)

Tripod Case 46" x 16" x 14", 60 lbs

Dish Case 41" x 13" x 34", 45 lbs

Remaining Equipment Case 34" x 24" x 20", 85lbs

Assembly and setup time is approximately 15 minutes depending on configuration



| | | LARGE DISH | | | DUAL DISH | | |
|----------------|--|---|------------|-----------|--|------------|-----------|
| Antenna Gain | L/S-Wideband | 21 dBi (L) | 26 dBi (S) | MTS3-LS D | 19 dBi (L) | 22 dBi (S) | MTS3-LS P |
| | S/C-Wideband | 27 dBi (S) | 32 dBi (C) | MTS3-SC D | 22 dBi (S) | 31 dBi (C) | MTS3-SC P |
| | L-Band | 24 dBi | | MTS3-LD | 21 dBi | | MTS3-LP |
| | S-Band | 28 dBi | | MTS3-SD | 24 dBi | | MTS3-SP |
| | C-Band | 35 dBi | | MTS3-CD | 31 dBi | | MTS3-CP |
| Dish | L-Band | 10° | | MTS3-LD | 17° | | MTS3-LP |
| | S-Band | 6° | | MTS3-SD | 11° | | MTS3-SP |
| | C-Band | 3° | | MTS3-CD | 4.7° | | MTS3-CP |
| Size | Dish (Diameter) | 48" (x1) | | | 30" (x2) | | |
| | | MAX: 85" x 114" x 110", 100 lbs. MIN: 52" x 114" x 84", 100 lbs. | | | MAX: 85 x 103" x 114", 92 lbs. MIN: 52" x 114" x 68", 92 lbs. | | |
| | Total Elements | 2 | | | 4 | | |
| Polarization | | Dual Ploarized | | | Dual Ploarized | | |
| | | Twist lock to change | | | Twist lock to change | | |
| | V/H | +/- 45° | | | +/- 45° | | |
| Operation | Elevation | 0-90° | | | 0-90° | | |
| | Pan | 360° continuous | | | 360° continuous | | |
| | Accuracy | <1° | | | <1° | | |
| Environmental | Temperature | -20° to 65° C | | | -20° to 65° C | | |
| | Protection Level | IP67 | | | IP67 | | |
| | Automatic Heading | Optional | | | Optional | | |
| Power Draw | Nominal draw testing: 80 • Max during testing: 150W • Maximum possible: 200W | | | | | | |
| Pan Tilt Speed | Pan 15 deg/sec • Tilt 10 deg/sec | | | | | | |
| Setup Time | 10 minutes | | | | | | |

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