

MISSION &
FIELD PROVEN

Orbit MPT Ground Deployable SATCOM

Rapid Communications-On-The-Pause (COTP) connectivity for tactical Forces

Modern tactical forces can no longer rely solely on terrestrial communications. In today's contested battlefield, resilient Beyond-Line-of-Sight (BLOS) connectivity is essential for maintaining command and control continuity. Orbit's Rapid Deployable SATCOM portfolio enables reliable Communications-On-The-Pause (COTP) operations, ensuring secure connectivity wherever the mission demands.

Designed for Mission Success

- **Rapid deployment**– Operational within minutes
- **Combat Proven**– Field-proven MPT systems, with operationally deployed configurations at TRL 9.
- **GNSS interference Resilience**– 100% reliable operation under GNSS Jamming & Spoofing.
- **Compact High Performance**– Maximum capability in minimal SWaP
- **Military Grade Design**– Fully ruggedized MIL-STD architecture

Key Operational Capabilities



Multi-Orbit compatibility
(GEO, MEO, LEO, HEO)



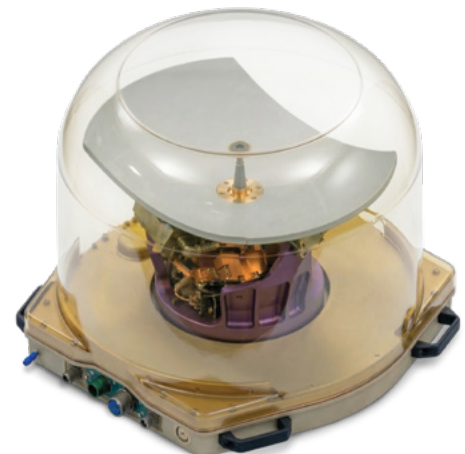
Multi-Network interoperability



Network & Modem agnostic



Multi-Polarization support



Orbit Communication Systems delivers tailor-made, mission-critical SATCOM solutions for naval, airborne, and ground platforms. With decades of operational experience, Orbit ensures secure, resilient, and uninterrupted communications for defense forces worldwide.



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Typical Mission Applications

 Beyond-Line-of-Sight Command & Control

 Remote Tactical Network Extension

 Real-Time Tactical Data Backhaul



Forward Command Post (FCP) Connectivity



Tactical Headquarters (Tac HQ) Connectivity

Product Portfolio				
Parameter	Value/Notes	MPT Ground Deployable		
Product		MPT 30 GD	MPT40	MPT40
Band		Ka	Ka	Ku
Tx Frequency	GHz	27.5 to 31.0	27.5 to 31.0	13.75 to 14.5
Rx Frequency	GHz	17.7 to 21.2	17.7 to 21.2	10.7 to 12.75
Polarization		Circular RHCP & LHCP Co/Cross-Pol (Electrically switchable)	Circular RHCP & LHCP Co/Cross-Pol (Electrically switchable)	Linear H/V Cross-Pol (electrically switchable)
EIRP (typical Psat at mid range inc. radome losses)	dBW	49 @20W	47.5 @10W BUC 50.5 @20W BUC	49.2 @60W
G/T (typical mid band, 30° elevation, clear sky inc. radome losses)	dB/K	10	11.5	10
BUC Psat Options	W	20	10/20	60
Azimuth Coverage		360° continuous	360° continuous	360° continuous
Elevation Range		5° to 90°	5° to 90°	5° to 90°
Pointing Accuracy		≤0.2°	≤0.2°	≤0.2°
Aperture effective Diameter	cm	30	40	40
System Height (with Radom)	cm	45.8	45.1	45.1
Footprint (L x W)	cmxcm	48.3 x 52.2	54.5 x 54.5	54.5 x 54.6
Weight	Kg	<25	<30	<30
Power Consumption (typ/Peak)	W	170/330	115/228W @10W BUC 140/278W @20W BUC	328/398
Operational Temperature (ambient)	C	-10° to +60°	-40° to +60°	-40° to +60°
Storage Temperature	C	-20° to +70°	-46° to +71°	-46° to +71°
Environmental conditions	Standard	MIL-STD-810G	MIL-STD-810H	MIL-STD-810H
EMI / EMC standard	Standard	MIL-STD-461G	MIL-STD-461G	MIL-STD-461G
Modem Compatibility		Agnostic	Agnostic	Agnostic

Note: The MPT40 represents Orbit's latest generation of tactical broadband SATCOM terminals, designed to support a broad range of mission requirements across land and maritime operations.

Learn more in the dedicated MPT40 brochure available [on our website](#).

Orbit understands that no two missions are alike. Specifications may vary depending on system configuration, including frequency band, BUC power, modem, radome, network requirements, and customer-specific integration needs. Orbit works closely with customers to tailor the solution to specific platform and mission requirements.