



Auto-aiming & Tracking Antenna System Suitable for Short to Medium Range Communications & Data

BTS-FAST

Key Benefits

- Lightweight, rugged, and easy to deploy
- Omni-like coverage
- Directional gain & interference mitigation
- Radio & frequency agnostic
- Dual Polarization, MIMO Support

The FAST is a radio agnostic, multi-purpose, automatic alignment and tracking antenna designed for Communications On-the-Move in high-speed mobile marine and ground vehicle environments. Ideal for deployments requiring mobile operation, the FAST represents a flexible solution for operators looking for reliable Line-of-Sight (LoS) communications in a small package. The design approach provides an affordable solution to phased-array antenna designs.

The FAST Integrates navigation sensors, motion control electronics and microwave radio RF characteristics for improved stabilization, acquisition and tracking performance. The combination of high speed antenna element switching and tracking software algorithms enable high data rates (greater than Gbps) speeds in an affordable and rugged architecture.



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Specifications

FAST - Solid State Automated Aiming & Tracking Antenna System

FREQUENCY	4.4 - 5.0 GHz
PEAK ANTENNA GAIN	15.8 dBi
OMNI MODE / OMNI GAIN	Yes / ~10dBi
ANTENNA GAIN AT CROSSEOVERS	<1 dB (Below Peak Gain)
POLARIZATION	Dual (Vertical & Horizontal Polarization)
SIDELobe ATTENUATION	>18dB (Typical)
BACKLOBE ATTENUATION	>20dB (Typical)
AZIMUTH COVERAGE	360° Cylindrical / Integrated Azimuth Stabilization
AZIMUTH BEAM POSITIONS	32 / <1μs Beam-to-Beam Switch Time
AZIMUTH BEAMWIDTH	36°
ELEVATION BEAMWIDTH	+/- 15°
ANTENNA	VSWR 2:1 Typical (2.2:1 Max)

Physical Specifications

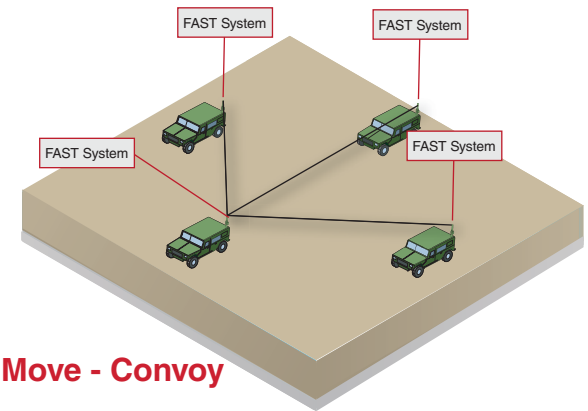
DIMENSIONS	153mm (Ø) x >600mm (H)
WEIGHT	15 lbs. / 6.80 kg
ENVIRONMENTAL	IP66 / Operating:-40 to 60°C / Storage:-40 to 70°C
POWER	24 or 48VDC PoE / 7.5W Nominal
RF INPUT POWER	Average: 20W / Peak: 100W

Software Options

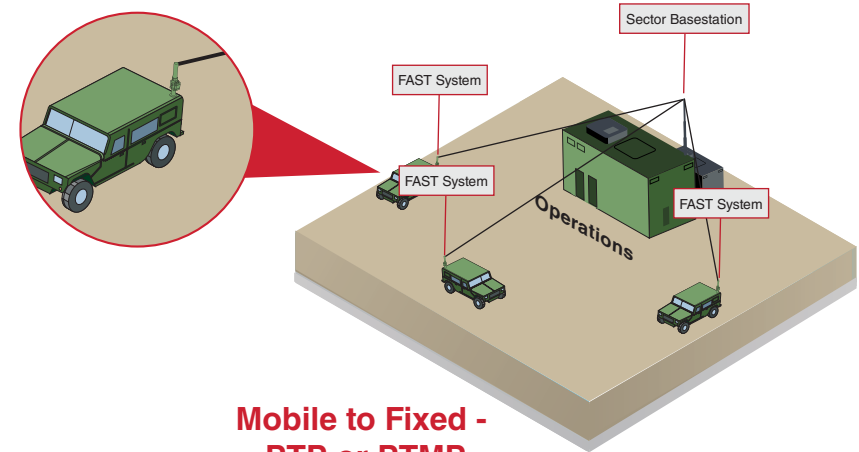
BTS-SW-OBGPS : Network GPS (Out-of-Band) - Integration with Outside Heading / GPS Sources
BTS-SW-ALM : Advanced Link Management (Spatial Awareness & Fleet Synchronization)
BTS-SW-AS : Advanced Security (SNMP v3 & AES Encryption) (BTS-SW-RM/AATS Required)
BTS-SW-BSB : BATS Sync Bridge Software Only

Ordering Options

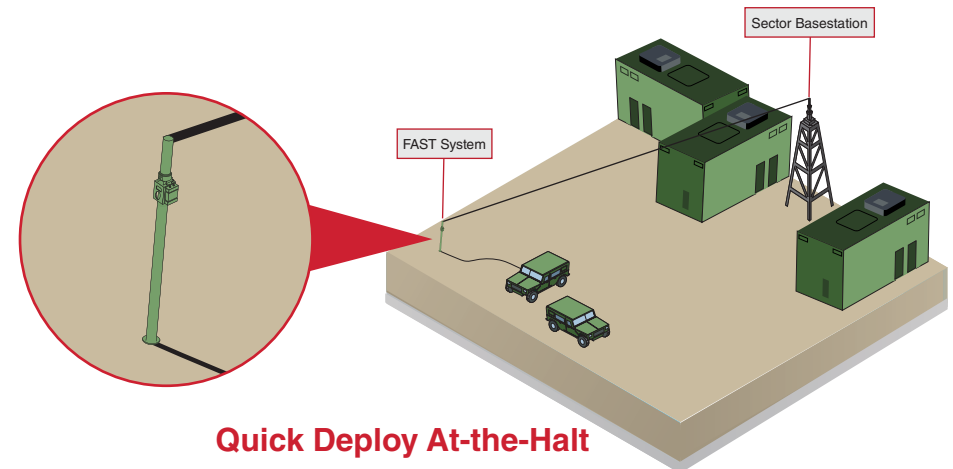
BTS-FAST : FAST Antenna Tracking System
BTS-TC : Travel Case
BTS-EXXX : Outdoor Ethernet Cable, MIL-SPEC Connectors



On the Move - Convoy



Mobile to Fixed - PTP or PTMP



Quick Deploy At-the-Halt