

# PRODUCT OVERVIEW

# FAST 5.8



## High Performance Antenna

Ultra-fast (sub- 500ns) antenna array speed through its 24 micro sectors. The solid-state and compact FAST antenna proves ideal for highly-mobile environments where only minimal space is available, such as on a vehicle or small vessel.

## Flexible System Deployment

Configurable to allow for both subscriber PTP and PMP network solutions  
Allows for the use of 5.6 - 5.9 GHz unlicensed operating frequency.

## Unparalleled Outdoor Performance

Broad temperature range, (-30° to 55° C), built to withstand environmental extremes  
Sealed, gasketed enclosure mitigates potential water ingress issues. Solid - state design dramatically increases durability, and eliminates potential points of failure due to repeated mechanical movement.

## Deep Ecosystem Integration

Developed alongside BATS innovative DVM & BTS product suites, the FAST delivers best-in-class system performance. When paired with suitable partner microwave radios, the FAST aids in faster link acquisition and management; as well as enhanced link stabilization and optimization capabilities.



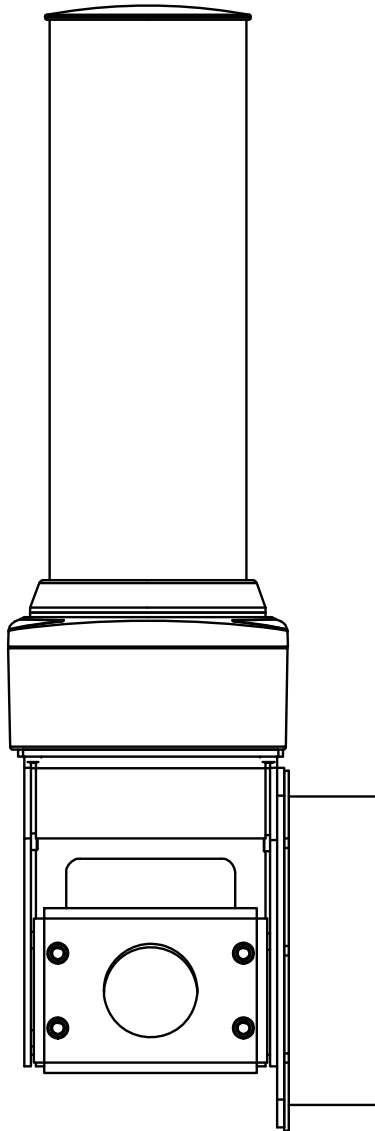
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# PRODUCT SPECIFICATIONS

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## Specifications

### FAST 5.8 - Solid State Automated Aiming & Tracking Antenna System

FREQUENCY	5.6 - 5.9 GHz
PEAK ANTENNA GAIN	16.5 dBi
OMNI MODE / OMNI GAIN	Yes / ~6.5 dBi
ANTENNA GAIN AT CROSSOVERS	>2 dB Below Peak Gain
POLARIZATION	Dual (Vertical & Horizontal Polarization Available)
SIDELobe ATTENUATION	>18dB (Typical)
BACKLOBE ATTENUATION	>20dB (Typical)
AZIMUTH COVERAGE	360° Cylindrical / Integrated Azimuth Stabilization
AZIMUTH BEAM POSITIONS	24 / <500ns Beam-to-Beam Switch Time
AZIMUTH BEAMWIDTH	40° (Typical @ 5.7 GHz)
ELEVATION BEAMWIDTH	8°
ANTENNA	Passive / 50 Ohms / VSWR 2:1 Typical (2.2:1 Max)

### Physical Specifications

DIMENSIONS	165mm (W) x 712mm (H)
WEIGHT	14 lbs.
ENVIRONMENTAL	IP66 / Operating:-30 to 55°C / Storage:-40 to 70°C
FREQUENCY	5.6 - 5.9 GHz
POWER	24 or 48VDC PoE / 7.5W Nominal
CONTROL INTERFACE	RS-485 Full Duplex, 57600, 8, 1, Even
POWER AMPLIFIER	Up to 36 dBm Input Power

### Testing Specifications

MIL-STD-810G Method 514.6, Procedure I, Category 20 (Ground Vehicles - Ground Mobile)
MIL-STD-810G Method 514.6, Procedure IV, Category 20 - Transit Drop



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