


# Antenna Monitoring Unit

Model: EHST01G001



## ELECTRICAL SPECIFICATIONS

Polarization	3GPP, AISG2.0, AISG-ES-RAE V2.2.0	
Input voltage range	DC +8.5V to +31V	
Power	$\leq 3W$	
GNSS frequency	band L1: 1575.42 $\pm$ 1.023 MHz	
GNSS constellations	Supports BDS/GPS/GLONASS/GALILEO/QZSS/SBAS systems	
Azimuth accuracy	Resolution of 0.1°, tolerance of $\pm 5^\circ$ (under interference environment as per China Mobile engineering parameter test specifications)	
Mechanical tilt accuracy	Resolution of 0.1°, tolerance of $\pm 1^\circ$	
Altitude	Resolution of 0.1 m, tolerance of $\pm 10$ m (under interference environment as per China Mobile engineering parameter test specifications)	
GPS positioning accuracy	Resolution of 1e-5°, tolerance range of $\pm 5$ m (under interference environment as per China Mobile engineering parameter test specifications)	
Time to first fix	$\leq 90$ s (open and interference-free environment) $\leq 300$ s (under interference environment as per China Mobile engineering parameter test specifications)	
Time to first orientation	$\leq 180$ s (open and interference-free environment) $\leq 300$ s (under interference environment as per China Mobile engineering parameter test specifications)	
Lightning protection level	IEC 61000-4-5:2005 IEC 61000-4-5 Current Pulsed Profile, 8/20 $\mu$ s 3 kA 10 repetitions	

## MECHANICAL SPECIFICATIONS

Hardware interface	8-pin AISG connector (IEC 60130-9). Male connector for input, female connector for output
Dimensions (LxWxH)	350mm x 95mm x 37.5mm
Weight	0.5kg
Enclosure material	Outdoor-grade PC+ABS
Operating temperature	-40°C to +75°C
Storage temperature	-55°C to +85°C
Maximum wind speed	200km/h
Protection rating	IP65 compliant with IEC60529 (when installed on the antenna top cover)