

TECHNICAL SPECIFICATION

Antenna Monitoring Unit(AISG)



A.0	Jul 22,2025	David	Michael	Klaus
Version	Date	Prepared	Reviewed	Approved

Electrical Specifications

Description	Antenna Monitoring Unit	
ZTT Product Code	A0474428	
Azimuth Accuracy	Deg	Resolution ratio 0.1°, allowable error $\pm 5^\circ$ (180s, open and undisturbed environment)
Hardware Interface	/	RS485B/A(Pin3/Pin5)、Power Supply(Pin1、Pin6)、DC Return(Pin7)
Logical Interface	/	HEX coded commands based on HDLC protocol
Support Agreement	/	AISG-ES-RAE v2.1.0、AISG V2.0 and 3GPP
Mechanical Tilt Accuracy	Deg	Resolution ratio 0.1°, allowable error $\pm 1^\circ$
GPS Positioning Accuracy	m	Resolution ratio 0.001m, allowable error ± 5 m (open and undisturbed environment)
Operating Temperature	°C	-40 ~ +60
Time to First Fix	s	90(open and undisturbed environment)
Time to First Orientation	s	180(open and undisturbed environment)
Power Supply	/	Compliant with AISG 2.0 and 3GPP Pin1: 10-30Vdc, Pin6: 10-30Vdc
Average Power	Watt	≤ 2 W
Dimensions (Length, Width, Height)	mm	350×100×40
IP Level	/	IP65
Lightning Protection	/	Compliant with IEC 61000-4-5: 2005 IEC. 61000-4-5 Current Pulse Profile, 8/20 us 3KA 10 repetitions
Connectors	/	2 x 8-Pin AISG connectors (1 male and 1 female)

Layout of Interface

