

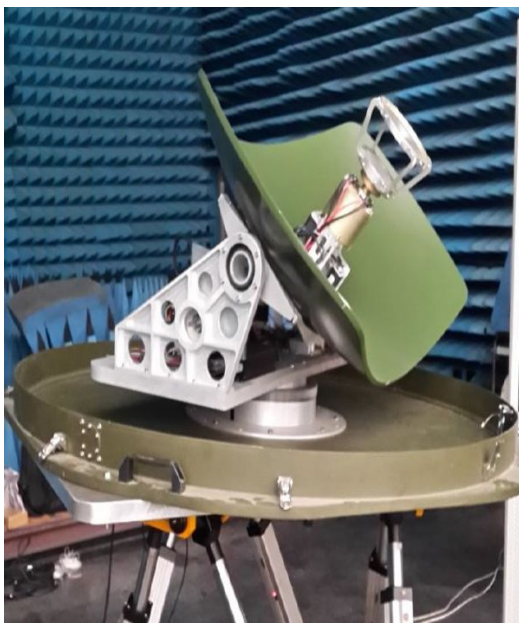
**China Starwin 0.6m & 0.8m & 0.9m on the move Antenna**



**0.6 Meter**



**0.8 Meter**



**0.9 Meter Ku & Ka Band On the move Antenna**

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**1.2 Meter Maritime Antenna**

Equivalent Aperture		0.6 Meter Middle & High Height	0.8 Meter Middle & High Height
Working Frequency	Tx GHz	14.0-14.5	14.0-14.5
	Rx GHz	12.25-12.75	12.25-12.75
Gain	Tx dBi	36.5	38.8
	Rx dBi	35.5	37.6
VSWR	Tx	1.25	1.25
	Rx	1.25	1.25
-3dB Beam Width	Tx	2.4°	1.7°
	Rx	2.9°	2.2°
Interface		WR75	WR75
Isolation Tx to Rx (dB)		85	85

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<b>Power Capacity</b>	100W	100W
<b>Polarization</b>	Linear, Automatic adjustment	Linear, Automatic adjustment
<b>Cross Polarization Isolation</b>	$\geq 35\text{dB(On Axis)}$ $\geq 30\text{dB}(-1\text{dB Beam Width})$	$\geq 35\text{dB(On Axis)}$ $\geq 30\text{dB}(-1\text{dB Beam Width})$
<b>Azimuth Range</b>	360°, Continuous infinite rotation	360°, Continuous infinite rotation
<b>Elevation Range</b>	25° -85°	15° -85°
<b>Polarization Range</b>	$\pm 95^\circ$	$\pm 95^\circ$
<b>Running Speed</b>	150Km/h	150Km/h
<b>Pointing Accuracy</b>	$\leq 0.3 \theta 0.5^\circ$ ( $\theta 0.5^\circ$ is Rx beam width)	$\leq 0.3 \theta 0.5^\circ$ ( $\theta 0.5^\circ$ is Rx beam width)
<b>Acquire Time (Sec)</b>	$\leq 120$	$\leq 120$
<b>Rotational Angular Velocity</b>	Az:80° /s	Az:80° /s
	El:60° /s	El:60° /s
<b>Rotational Angular Acceleration</b>	Az:400° /s <sup>2</sup>	Az:400° /s <sup>2</sup>
	El:400° /s <sup>2</sup>	El:400° /s <sup>2</sup>
<b>Size (mm)</b>	$\Phi 1000 \times 435$ (D×H)	$\Phi 1100 \times 575$ (D×H)
<b>Working Temperature</b>	-25°C ~ +55°C (Inside of cabin devices)	-25°C ~ +55°C (Inside of cabin devices)
	-40°C ~ +65°C (Outside of cabin devices)	-40°C ~ +65°C (Outside of cabin devices)
<b>Power</b>	220VAC, 50Hz	220VAC, 50Hz
<b>Power Consumption</b>	260W (Max)	300W (Max)

<b>Equivalent Aperture</b>	<b>0.9m</b> <b>Ku &amp; Ka Double Band On the Move</b>
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<b>Material of the Reflector</b>		Carbon Fiber
<b>Type of the Reflector</b>		Positive Feed
<b>Working Frequency</b>	<b>Tx GHz</b>	Ku: 14.0-14.5
		Ka: 29.4-31.0
	<b>Rx GHz</b>	Ku: 12.25-12.75
		Ka: 19.6-21.2
<b>Gain</b>	<b>Tx dBi</b>	Ku: 40.3
		Ka: 46.1
	<b>Rx dBi</b>	Ku: 39.2
		Ka: 42.7
<b>VSWR</b>	<b>Tx</b>	1.3
	<b>Rx</b>	1.3
<b>First Side Lobe</b>		$\leq -14\text{dB}$ (Azimuth)
		$\leq -12\text{dB}$ (Elevation)
<b>Interface</b>		Ku: WR75
		Ka: WR28
<b>Axial Ratio</b>		1.5:1
<b>Power Capacity</b>		$\geq 100\text{W}$
<b>Polarization</b>		Ku: Linear
		Ka: Circular
<b>Cross Polarization Isolation</b>		$\geq 33\text{dB}$ (On Axis)
<b>Azimuth Range</b>		360°, Continuous infinite rotation
<b>Elevation Range</b>		10° -85°
<b>Polarization Range</b>		Ku: $\pm 95^\circ$
		Ka: Adjustable RHCP & LHCP
<b>Tracking Accuracy</b>		$\leq 0.3 \theta 0.5^\circ$ ( $\theta 0.5^\circ$ is Rx beam width)
<b>Initial Turn -On Time</b>		< 120 s

<b>Shelter Recovery Time</b>	< 3 s
<b>Size</b>	Φ1350×678
<b>Working Temperature</b>	-25℃~+55℃ (Inside of cabin devices)
	-40℃~+65℃ (Outside of cabin devices)
<b>Weight</b>	<80Kg (No include BUC )
<b>Power Consumption</b>	350W (Max)

<b>Equivalent Aperture</b>		<b>1.2 Meter Maritime Antenna</b>
<b>Material of the Reflector</b>		Carbon Fiber
<b>Type of the Reflector</b>		Positive Feed
<b>Working Frequency</b>	<b>Tx GHz</b>	13.75-14.5
	<b>Rx GHz</b>	10.95-12.75
<b>Gain</b>	<b>Tx dBi</b>	42.8
	<b>Rx dBi</b>	41.6
<b>VSWR</b>	<b>Tx</b>	1.3
	<b>Rx</b>	1.3
<b>Isolation</b>	<b>Tx</b>	>85dB
	<b>Rx</b>	>40dB
<b>First Side Lobe</b>		≤-14dB

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<b>Interface</b>	WR75
<b>Power Capacity</b>	200W
<b>Polarization</b>	Linear
<b>Cross Polarization Isolation</b>	$\geq 35\text{dB(On Axis)}$ $\geq 30\text{dB}(-1\text{dB Beam Width})$
<b>Azimuth Range</b>	$360^\circ$ , Continuous infinite rotation
<b>Elevation Range</b>	$-15^\circ -110^\circ$
<b>Polarization Range</b>	$\pm 95^\circ$
<b>Cross Axis Rotation Range</b>	$\pm 33^\circ$
<b>Tracking Accuracy</b>	$0.2^\circ$ MSE
<b>Angular Acceleration</b>	AZ: $100^\circ / \text{s}^2$
	EL: $100^\circ / \text{s}^2$
	POL: $100^\circ / \text{s}^2$
<b>Initial Turn -On Time</b>	$< 120 \text{ s}$
<b>Block Recovery Time</b>	Short time block ( $< 60\text{s}$ ): $< 3 \text{ s}$
	Long time block ( $> 60\text{s}$ ): $< 8 \text{ s}$
<b>Size</b>	$1700 \times 1680$
<b>Working Temperature</b>	$-40^\circ\text{C} \sim +55^\circ\text{C}$ (Outside of cabin devices)
<b>Humidity</b>	100%
<b>Weight</b>	$< 150\text{Kg}$ (No include BUC)
<b>Power Consumption</b>	$350\text{W}$ (Max)