



**Product Name:** MT-12B\_ 6 in 1 Screw Mount Shark Fin Antenna Series

**Part Number:** MT-12B-AC-B2L3W01

**Features:**

- 2\*LTE Full Bands antenna, 698-960, 1710-3800MHz
- 3\*WiFi Dual Bands antenna, 2400-2500, 5150-5850MHz
- Support Active GPS/GLONASS antenna
- M20 Thread for antenna mounting
- SMA male Connector, fully customizable

**Application:**

- Automotive application

# MT-12B\_ 6 in 1 Screw Mount Shark Fin Antenna Series

**MODEL: MT-12B-AC-B2L3W01**

WI-RD-D-379 V1.0

## I. Specifications:

Items		GNSS Specifications	
Frequencies (MHz)		1575.42	1602
Gain @ Zenith	1575.42 MHz	1.7 dBi	
	1602 MHz	1.2 dBi	
Polarization		R.H.C.P. (Right Handed Circular Polarization)	
<b>Low Noise Amplifier</b>			
Frequencies (MHz)		1575.42	1602
Gain @ Zenith	1575.42 MHz	40 ± 2 dB ( @3.3 ± 0.1V )	
	1602 MHz	40 ± 2 dB ( @3.3 ± 0.1V )	
Noise Figure (typical)		2.0 dB	
Operation Voltage (V)		3.0 ~ 5.0	
Current (mA)		10±2	
Output V.S.W.R		2.0 Max.	
<b>Overall Specification (Through Patch and LNA)</b>			
Frequencies (MHz)		1575.42	1602
Gain @ Zenith	1575.42 MHz	41.7 ± 2 dB ( @3.3 ± 0.1V )	
	1602 MHz	41.2 ± 2 dB ( @3.3 ± 0.1V )	
Output Impedance (Ω)		50	
V.S.W.R		2.0 Max.	
Operation Voltage (V)		3.0 ~ 5.0	
Current (mA)		10±2	
Cable / Connector		1 meter H-100 / SMA (Male)	

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LTE Electrical Characteristics							
Items	LTE Specifications						
<b>Frequencies (MHz)</b>	LTE 700	GSM 850/900	DCS	PCS	UMTS1	LTE	
<b>Application Bands</b>	698~ 824	824~ 960	1710~ 1880	1850~ 1990	1920~ 2170	2300~ 3800	
Efficiency (%)							
<b>LTE MIMO1</b>	56.76	61.23	71.80	79.70	68.80	68.00	
<b>LTE MIMO2</b>	54.20	69.40	66.60	78.72	72.30	65.70	
Average Gain (dBi)							
<b>LTE MIMO1</b>	-2.45	-2.13	-1.40	-0.98	-1.62	-1.67	
<b>LTE MIMO2</b>	-2.66	-1.58	-1.76	-1.03	-1.40	-1.80	
Peak Gain (dBi)							
<b>LTE MIMO1</b>	1.66	2.56	3.00	3.50	2.50	2.45	
<b>LTE MIMO2</b>	2.00	3.40	2.80	4.44	3.80	3.50	
<b>Cable / Connector</b>	1 meter H-100/ SMA (Male)						
WIFI Electrical Characteristics							
Items	WIFI Specifications						
<b>Frequencies (MHz)</b>	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)							
<b>WIFI MIMO1</b>	66.00	73.60	74.20	84.40	77.20	67.70	59.63
<b>WIFI MIMO2</b>	60.74	64.67	62.09	62,34	57.05	46.22	45.60
<b>WIFI MIMO3</b>	61.00	70.50	68.30	70.10	60.10	55.70	50.10
Average Gain (dBi)							
<b>WIFI MIMO1</b>	-1.80	-1.33	-1.92	-0.73	-1.12	-1.69	-2.25
<b>WIFI MIMO2</b>	-2.17	-1.89	-2.01	-2.05	-2.44	-3.35	-3.41
<b>WIFI MIMO3</b>	-2.14	-1.51	-1.65	-1.54	-2.21	-2.54	-3.00
Peak Gain (dBi)							
<b>WIFI MIMO1</b>	3.90	5.27	3.10	4.65	5.20	4.11	3.98
<b>WIFI MIMO2</b>	3.99	4.14	3.44	2.60	2.55	1.24	1.05
<b>WIFI MIMO3</b>	3.51	4.42	3.05	3.12	4.11	2.78	2.66

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<b>Cable and Connector</b>	
<b>Cable / Connector</b>	1 meter H-100 / SMA (Male)
<b>Physical Condition</b>	
<b>Dimension (mm)</b>	To be update
<b>Environmental Conditions</b>	
<b>Operation Temperature (°C)</b>	-40 ~ +85
<b>Storage Temperature (°C)</b>	-40 ~ +85
<b>Waterproof Resistant</b>	IP67
<b>Relative Humidity</b>	95% non-condensing

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