

# Wireless Indoor Antenna

## WLAN Antenna



Band	Group	Type
2.4GHz 2dBi	Detachable	Connector : SMA, TNC
	Undetachable	Connector : U.FL, I-PEX, MMCX, MCX Mechanism : Right Angle, Swivel
2.4GHz High Gain	Detachable	Connector : SMA, TNC
	Undetachable	Connector : U.FL, I-PEX, MMCX, MCX Mechanism : Right Angle, Swivel
	Gain	3 dBi, 4 dBi, 5 dBi, 6 dBi, 7 dBi,
2.4/5 GHz Dual Band	Detachable	Connector : SMA, TNC
	Undetachable	Connector : U.FL, I-PEX, MMCX, MCX Mechanism : Right Angle, Swivel
	Feed	Single Feed Dual Feed
5 GHz Full Band	Detachable	Connector : SMA, TNC
	Undetachable	Connector : U.FL, I-PEX, MMCX, MCX Mechanism : Right Angle, Swivel

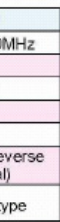
S-005



S-013



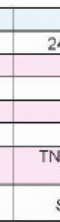
S-012



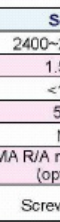
S-014



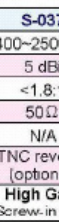
S-018



S-036



S-037



Model No.	S-005	S-013	S-012	S-014	S-018	S-018	S-036	S-037
Pre-tuned band	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz
Gain	2 dBi	2 dBi	2 dBi	2 dBi	2 dBi	2 dBi	1.5 dBi	5 dBi
V.S.W.R.	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1
Impedance	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω
Cable	N/A	N/A	RG-178 (optional)	N/A	N/A	N/A	N/A	N/A
Connector	SMA male standard (optional)	SMA male reverse (optional)	Cable terminated with MMCX R/A male (optional)	SMA male reverse (optional)	TNC male reverse (optional)	SMA R/A male standard (optional)	TNC reverse (optional)	TNC reverse (optional)
Features	Screw-in type Water proof outdoor use	Screw-in type	Plug-in type plastic mount	Screw-in type	Screw-in type	Screw-in type	Screw-in type	High Gain Screw-in type



S-301



S-304



S-077-7dBi



S-099-9dBi



AUT-02-5dBi



AUT-02-7dBi

Model No.	S-301	S-304	S-077-7dBi	S-099-9dBi	AUT-02-5dBi	AUT-02-7dBi
Frequency range	2400~2500MHz/ 5150~5825MHz	2400~2500MHz/ 5150~5825MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz	2400~2500MHz
Gain	0 ± 2 dBi	0 ± 3 dBi	6.5 ± 0.5 dBi	8.5 ± 0.5 dBi	4.5 ± 0.5 dBi	6.5 ± 0.5 dBi
V.S.W.R.	2.0:1 max	2.0:1 max	1.8:1 max	1.8:1 max	1.8:1 max	1.8:1 max
Impedance	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω
Polarization	Linear Vertical	Linear Vertical	Linear Vertical	Linear Vertical	Linear Vertical	Linear Vertical
HPBW / H-Plane	360°	360°	-	-	-	-
HPBW / E-Plane	20°	20°	-	-	-	-
Dimensions	-	-	-	-	H150*W29mm	H150*W29mm
Connector	TNC male reverse (optional)	TNC male reverse (optional)	TNC male reverse (optional)	TNC male reverse (optional)	MMCX, SMA (optional)	MMCX, SMA (optional)
Cable	-	-	-	-	RG-316 (optional)	RG-316 (optional)

# Indoor Antenna



## DS-06A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 6dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions : 80(L)\*80(W)\*158(H)mm



## DS-06B

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 6dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions : 80(L)\*64(W)\*158(H)mm



## DD-68A

- ◆ Compliant with IEEE802.11a/b/g
- ◆ Gain : 6dBi / 8dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz / 5.15~5.85GHz
- ◆ Dimensions : 80(L)\*64(W)\*158(H)mm



## DD-68B

- ◆ Compliant with IEEE802.11a/b/g
- ◆ Gain : 6dBi / 8dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz / 4.9~5.85GHz
- ◆ Dimensions : 70(L)\*80(W)\*105(H)mm



## OS-05A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 5dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$ 50\*201(H)mm



## OS-02A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 2dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$ 35\*105(H)mm



## OD-35A

- ◆ Compliant with IEEE802.11a/b/g
- ◆ Gain : 3dBi / 5dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz / 4.9~5.85GHz
- ◆ Dimensions : 85(L)\*64(W)\*145(H)mm



## OD-47A

- ◆ Compliant with IEEE802.11a/b/g
- ◆ Gain : 4dBi / 7dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz / 4.9~5.85GHz
- ◆ Dimensions : 80(L)\*40(W)\*195(H)mm



## OS-05B

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 5dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$ 65\*190(H)mm



## OS-07A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 7dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions : 115(L)\*70(W)\*300(H)mm

## Lightning Protector



AR-3GA

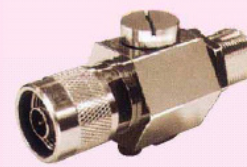


AR-3GB

## AR-3GA

## AR-3GB

- ◆ Frequency Range : DC-3 GHz
- ◆ VSWR : 1.3:1 Max
- ◆ Impedance : 50 $\Omega$
- ◆ DC Breakdown Voltage : 90V $\pm$ 15% (@rising voltage 100V/s)
- ◆ Surge Breakdown Voltage $\leq$ 650V (@rising voltage 1000V/ $\mu$ s)
- ◆ Insulation Resistance :  $\geq$ 10000M $\Omega$
- ◆ Insertion Loss : 0.5 dB Max. (0-3 GHz)
- ◆ Connectors : N-Plug ; N-Jack
- ◆ Dimensions :  $\phi$ 20\*64(L)mm (AR-3GA)  
 $\phi$ 20\*54.8(L)mm (AR-3GB)



## AR-6GA

- ◆ Frequency Range : DC-6 GHz
- ◆ VSWR : 1.3:1 Max
- ◆ Impedance : 50 $\Omega$
- ◆ DC Breakdown Voltage : 90V $\pm$ 20% (@rising voltage 100V/s)
- ◆ Surge Breakdown Voltage $\leq$ 5000V [ @rising voltage 5KV(Wave 1.2/50  $\mu$ s ) ]
- ◆ Insulation Resistance :  $\geq$ 10000M $\Omega$
- ◆ Insertion Loss : 0.8 dB Max. (0-6 GHz)
- ◆ Connectors : N-Plug ; N-Jack
- ◆ Dimensions : 30(W)30(H)\*68(L)mm

## Indoor Antenna Base



## AD-001

- ◆ VSWR : 1.5:1 max.
- ◆ Freq. : DC~6GHz
- ◆ Cable : RG-316
- ◆ Connectors : RP-SMA Plug  
RP-SMA Jack



## AD-002

- ◆ VSWR : 1.5:1 max.
- ◆ Freq. : DC~6GHz
- ◆ Cable : GDC-101( $\phi$ 2.9)
- ◆ Connectors : RP-SMA Plug  
RP-SMA Jack

# Outdoor Antenna

## Freq. 2.4G



### DS-09A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 9dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5 GHz
- ◆ Dimensions : 120(L)\*120(W)\*40(H)mm



### DS-14A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 14 dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5 GHz
- ◆ Dimensions : 240(L)\*240(W)\*40(H)mm



### DS-18A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 18 dBi (Excluding cable loss)
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions : 360(L)\*340(W)\*65(H)mm



### OS-05A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 5 dBi
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$  21\*325(H)mm



### OS-08A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 8 dBi
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$  21\*625(H)mm



### OS-12A

- ◆ Compliant with IEEE802.11b/g
- ◆ Gain : 12 dBi
- ◆ Freq. : 2.4~2.5GHz
- ◆ Dimensions :  $\phi$  44\*1200(H)mm

## Freq. 3.8G



### DS-09B

- ◆ Compliant with IEEE802.16e
- ◆ Gain : 9 dBi
- ◆ Freq. : 3.3~3.8GHz
- ◆ Dimensions : 120(L)\*120(W)\*40(H)mm



### DS-16A

- ◆ Compliant with IEEE802.16e
- ◆ Gain : 16 dBi
- ◆ Freq. : 3.3~3.8GHz
- ◆ Dimensions : 240(L)\*240(W)\*40(H)mm



### DS-18B

- ◆ Compliant with IEEE802.16e
- ◆ Gain : 18 dBi
- ◆ Freq. : 3.4~3.7GHz
- ◆ Dimensions : 360(L)\*340(W)\*65(H)mm

## Dual Band / Freq. 2.4G~5G



### OD-58A

- ◆ Compliant with IEEE802.11a/b/g
- ◆ Gain : 5 dBi / 8 dBi
- ◆ Freq. : 2.4~2.5 GHz / 5.15~5.85 GHz
- ◆ Dimensions :  $\phi$  44\*505(H)mm



### OD-89A

- ◆ Compliant with IEEE802.11 a/b/g
- ◆ Gain : 8 dBi / 9 dBi
- ◆ Freq. : 2.4~2.5GHz / 5.15~5.85GHz
- ◆ Dimensions :  $\phi$  44\*830(H)mm

## Freq.5G



### OS-20A

- ◆ Compliant with IEEE802.11a
- ◆ Gain : 20 dBi (Excluding Cable loss)
- ◆ Freq. : 4.9~5.85 GHz
- ◆ Dimensions : 240(L)\*240(W)\*40(H)mm



### OS-12B

- ◆ Compliant with IEEE802.11a
- ◆ Gain : 12 dBi
- ◆ Freq. : 5.4~5.85 GHz
- ◆ Dimensions :  $\phi$  44\*830(H)mm