

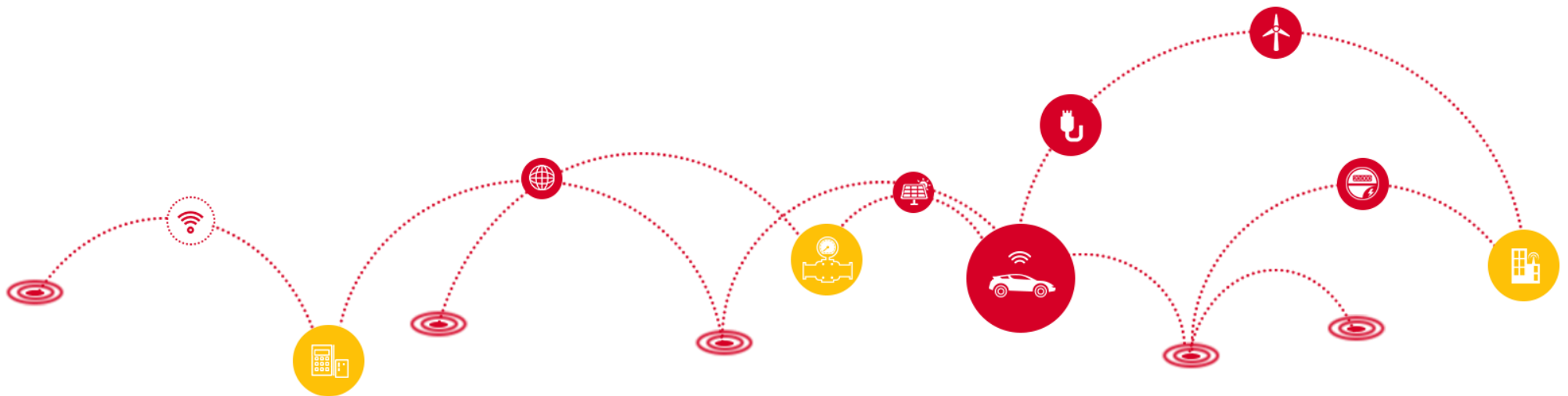
Quectel Antenna Portfolio

Overview

November, 2020

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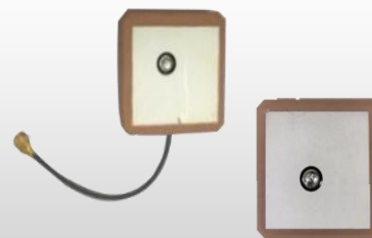
Overview



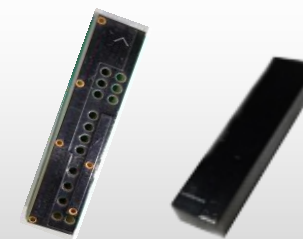
**External Rubber
Antenna**



**External GNSS
Antenna**



**Internal GNSS
Antenna**



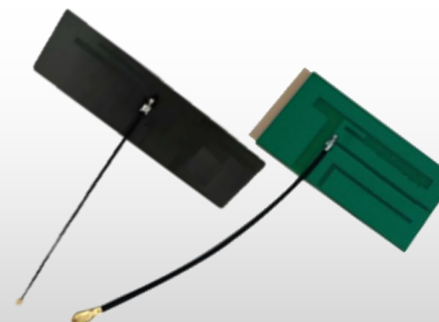
SMD Antenna



Waterproof Antenna



Combined Antenna



**Embedded
FPC&PCB Antenna**



RF Cable

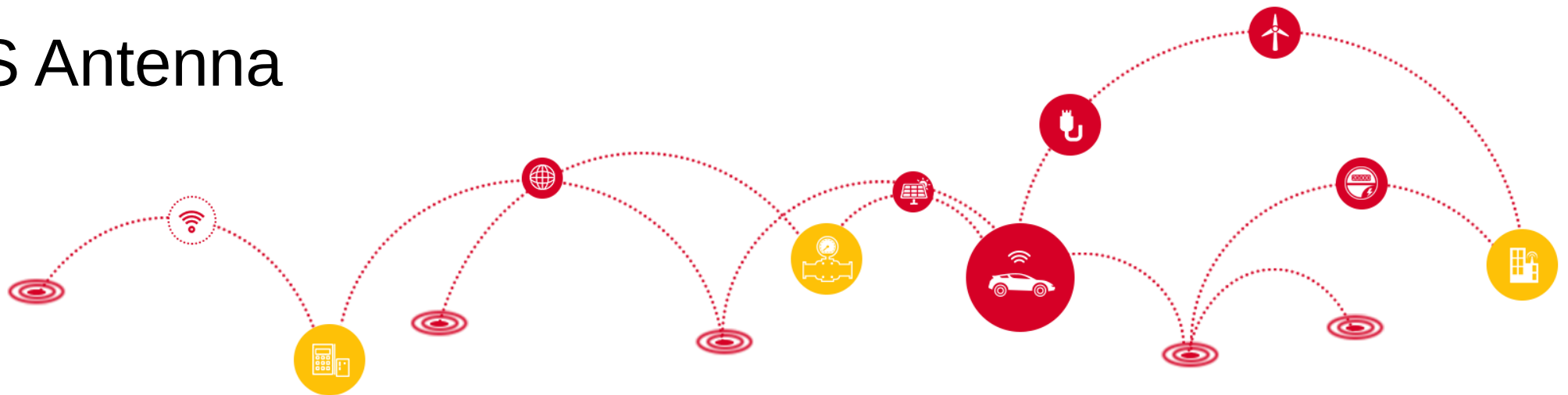
External Rubber Antenna

RF Cable

External Waterproof Antenna

Embedded Antenna

GNSS Antenna



5G/4G/3G/2G Antenna



OC: YE0001BA

Frequency (MHz)	600–6000
Peak Gain (dBi)	5.0
VSWR	≤ 3.0
Average Efficiency	600–960 MHz: 40 %; 1710–2690 MHz: 50 %; 3000–5900 MHz: 50 %
Antenna Shape	Straight or bent
Application	5G/4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	221x 26.95x13.5
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

OC: YE0007AA

Frequency (MHz)	600–5000
Peak Gain (dBi)	5.0
VSWR	≤ 3.0
Average Efficiency	600–960 MHz: 40 %; 1710–2690 MHz: 50 %; 3000–5900 MHz: 45 %
Antenna Shape	Straight or bent
Application	5G/4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	152.4x 21.79x14.49
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

5G/4G/3G/2G Antenna



OC: YE0003AA

Frequency (MHz)	699–5000
Peak Gain (dBi)	2
VSWR	≤ 5
Average Efficiency	699–960 MHz: 40 %; 1710–2690 MHz: 50 %; 3000–5000 MHz: 45 %
Antenna Shape	Straight or bent
Application	5G/4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	190 × 16Ø
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

OC: YE00025AA

Frequency (MHz)	698–960, 1710–5000MHz
Peak Gain (dBi)	2
VSWR	≤ 5.0
Average Efficiency	698–960 MHz: 38 %; 1710–2690 MHz: 45 %; 3000–5000 MHz: 35 %
Antenna Shape	Straight or bent
Application	5G/4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	199 × 22Ø
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

4G/3G/2G Antenna



OC: YE0009AA

Frequency (MHz)	824–2690
Peak Gain (dBi)	3.0
VSWR	≤ 3
Average Efficiency	824–960 MHz: 30 %; 1710–2690 MHz: 50 %
Antenna Shape	Straight or bent
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	190 × 16
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YGL001AA

Frequency (MHz)	700–960, 1710–2690
Peak Gain (dBi)	3
VSWR	≤ 5
Average Efficiency	700–960 MHz: 30 %; 1710–2690 MHz: 60 %
Antenna Shape	Straight or bent
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	196.2 × 16 × 13
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC: YE0005AA

Frequency (MHz)	824–2700
Peak Gain (dBi)	3.0
VSWR	≤ 3.0
Average Efficiency	824–960 MHz: 35 %; 1710–2700 MHz: 70 %
Antenna Shape	Bent in fixed right-angle
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	115 × 8
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YE0002AA

Frequency (MHz)	699–2700
Peak Gain (dBi)	3.0
VSWR	≤ 3
Average Efficiency	699–960 MHz: 50 %; 1710–2700MHz: 60 %
Antenna Shape	No bending
Application	4G/3G/2G
Connector	RP-SMA Male (with center receptacle)
Impedance (Ω)	50
Size (mm)	174.6 × 19.2
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC:YDX001AA

Frequency (MHz)	824–2690
Peak Gain (dBi)	5
VSWR	≤ 2
Average Efficiency	824–960 MHz: 35 %; 1710–2690 MHz: 50 %
Antenna Shape	Straight or bent
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	208 × Ø 12
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC: YE0012AA

Frequency (MHz)	824–960, 1710–2690
Peak Gain (dBi)	4
VSWR	≤ 2.0
Average Efficiency	824–960 MHz: 25 %; 1710–2690MHz: 50 %
Antenna Shape	Straight
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	116.5 × 21.7 × 5.6 with default cable length 250mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YE0010AA

Frequency (MHz)	698–2700
Peak Gain (dBi)	3.0
VSWR	≤ 3.0
Average Efficiency	698–960 MHz: 25 %; 1710–2700MHz: 50 %
Antenna Shape	Straight
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	152 × 18 × 5.9 with default cable length 1000 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

NB-IoT/3G/2G Antenna



OC: YE0011AA

Frequency (MHz)	824–960, 1710–2170
Peak Gain (dBi)	3
VSWR	≤ 3.5
Average Efficiency	824–960 MHz: 20 %; 1710–2170 MHz: 40 %
Antenna Shape	bent
Application	NB-IoT/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	50 × Ø 10
Quectel Module	Module Series: LPWA/UMTS/GSM/GPRS



OC: YE0008AA

Frequency (MHz)	824–960, 1710–2170
Peak Gain (dBi)	3
VSWR	≤ 3.5
Average Efficiency	824–960 MHz: 20 %; 1710–2170 MHz: 40 %
Antenna Shape	bent
Application	NB-IoT/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	52 × Ø 10
Quectel Module	Module Series: LPWA/UMTS/GSM/GPRS

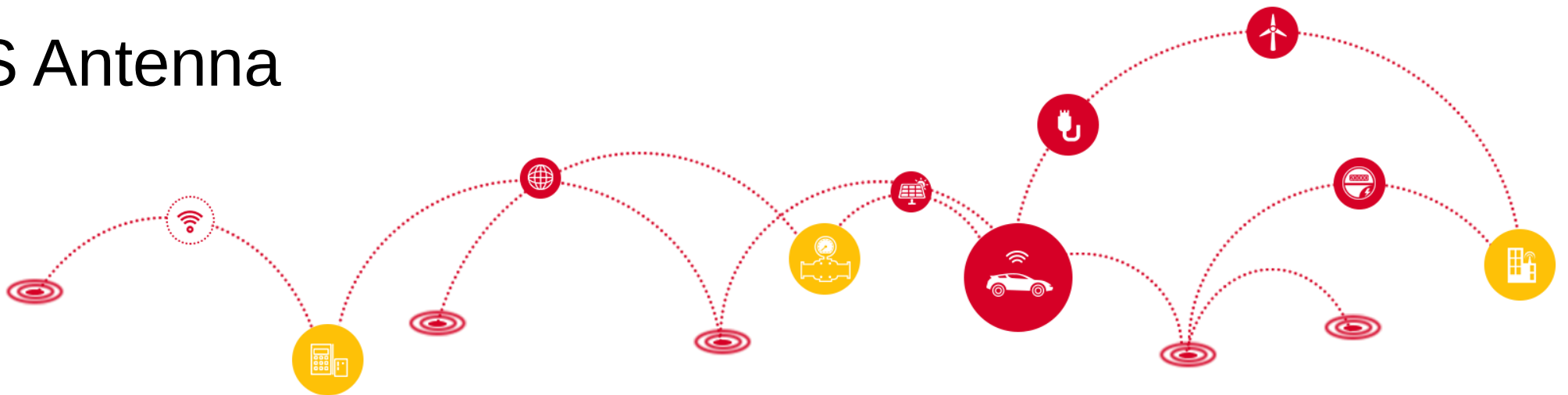
External Rubber Antenna

RF Cable

External Waterproof Antenna

Embedded Antenna

GNSS Antenna



SMA to MHF I



OC: YM0002AA

Frequency (MHz)	0–6000
Insertion Loss (dB)	≤ 2
VSWR	≤ 1.5
Connector	SMA Female (with center receptacle) to IPEX I
Cable Diameter (mm)	1.13
Application	5G/4G/3G/2G/Wi-Fi/GPS
Impedance (Ω)	50
Length (mm)	93 ±2
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YM0003AA

Frequency (MHz)	0–6000
Insertion Loss (dB)	≤ 2
VSWR	≤ 1.5
Connector	SMA Female (with center receptacle) to IPEX I
Cable Diameter (mm)	1.13
Application	5G/4G/3G/2G/Wi-Fi/GPS
Impedance (Ω)	50
Length (mm)	100 ±2
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

SMA to MHF IV



OC: YM0004AA

Frequency (MHz)	0–6000
Insertion Loss (dB)	≤ 2
VSWR	≤ 1.5
Connector	SMA Female (with center receptacle) to IPEX IV
Cable Diameter (mm)	1.13
Application	5G/4G/3G/2G/Wi-Fi/GPS
Impedance (Ω)	50
Length (mm)	100 ±2
Quectel Module	Module Series: 5G



OC: YM0005AA

Frequency (MHz)	0–6000
Insertion Loss (dB)	≤ 2
VSWR	≤ 1.5
Connector	SMA Female (with center receptacle) to IPEX IV
Cable Diameter (mm)	1.13
Application	5G/4G/3G/2G/Wi-Fi/GPS
Impedance (Ω)	50
Length (mm)	150 ±2
Quectel Module	Module Series: 5G

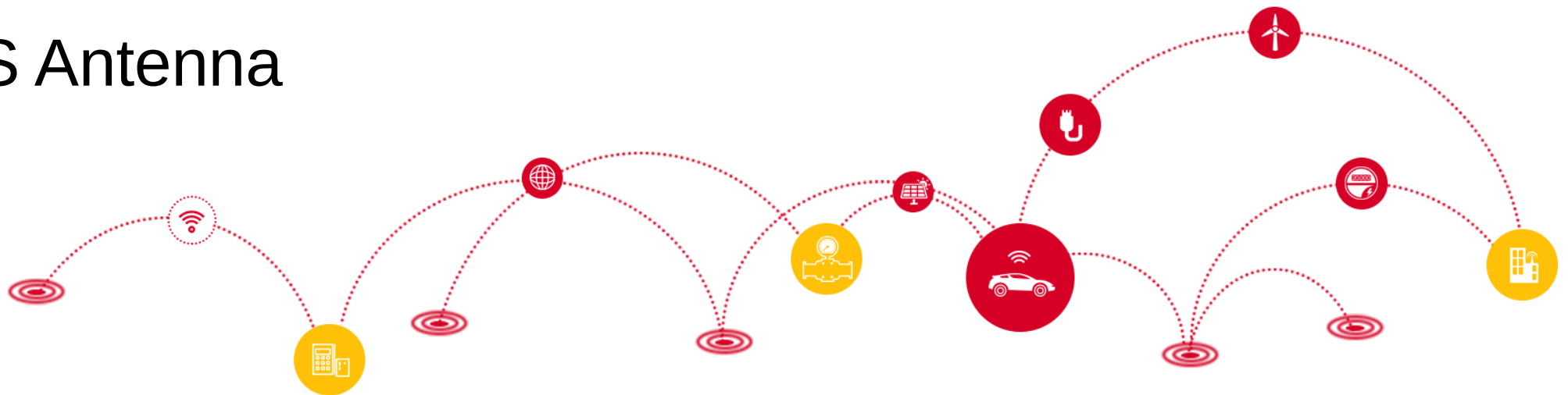
External Rubber Antenna

RF Cable

External Waterproof Antenna

Embedded Antenna

GNSS Antenna



5G/4G/3G/2G Antenna



OC: YFS001

Frequency (MHz)	700–960, 1710–2700, 3300–3800, 4400–5000
Peak Gain (dBi)	3
VSWR	≤ 4.5
Average Efficiency	700–960 MHz: 40 %; 1710–2700 MHz: 50 %; 3300–3800MHz; 4400–5000 MHz: 50 %
Antenna Shape	Straight
Application	5G/4G/3G/2G
Connector	Type-N connector (male)
Impedance (Ω)	50
Size (mm)	300 × Ø 22.6
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12



OC: YXH001AA

Frequency (MHz)	700–960, 1710–2690, 3300–5000
Peak Gain (dBi)	4.5
VSWR	≤ 4
Average Efficiency	700–960 MHz: 35 %; 1710–2690 MHz: 30 %; 3300–5000 MHz: 40 %
Antenna Shape	Magnetic
Application	5G/4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	285 × 45 with cable length 1000 mm
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

5G/4G Antenna



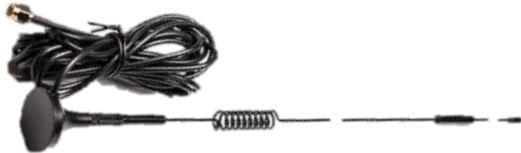
OC: YB0007AA	
Frequency (MHz)	700–960, 1710–2690, 3300–5000
Gain (dBi)	0 Min.
VSWR	≤ 4
Average Efficiency	700–960 MHz: 30 %; 1710–2690 MHz: 50 %; 3300–5000 MHz: 50 %
Antenna Shape	4 in 1 combination
Application	5G/4G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	Φ 120 × 43 with default cable length 500 mm
Quectel Module	Module Series: 5G/LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC: YCN001AA

Frequency (MHz)	700–2700
Peak Gain (dBi)	2.5
VSWR	≤ 3.5
Average Efficiency	700–960 MHz: 30 %; 1710–2700 MHz: 50 %;
Antenna Shape	Straight
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	144 × Ø 13
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YE0006AA

Frequency (MHz)	700–2700
Peak Gain (dBi)	3.0
VSWR	≤ 2.0
Average Efficiency	700–960 MHz: 25 %; 1710–2690MHz: 50 %
Antenna Shape	Magnetic
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	318 × Ø 30 with cable length 1500 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC: YKL001AA

Frequency (MHz)	Wi-Fi/BT: 2400–2500; 4G: 824–960, 1710–2690; GPS&BD: 1575.42 ±10, 1561 ±10
Peak Gain (dBi)	LNA: 28 ±2; 2G/3G/4G: 2.5; BT: 3
VSWR	≤ 3
Average Efficiency	824–960 MHz: 40 %; 1710–2690 MHz: 50 %; 2400–2500MHz: 40%
Antenna Shape	Combined antenna box
Application	4G/3G/2G/Wi-Fi/BT/GPS&BD
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	33 × 48 with default cable length 310 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC:YB0009AA

Frequency (MHz)	4G:824–960, 1710–2690; GPS&BD: 1575.42 ±10, 1561 ±10
Peak Gain (dBi)	LNA: 28 ±2; 2G/3G/4G: 2.5; BT: 3
VSWR	≤ 3
Average Efficiency	824–960 MHz: 40 %; 1710–2690 MHz: 50 %;
Antenna Shape	Combined antenna box
Application	4G/3G/2G/GPS&BD
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	33 × 48 with default cable length 310 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G Antenna



OC: YB0010AA

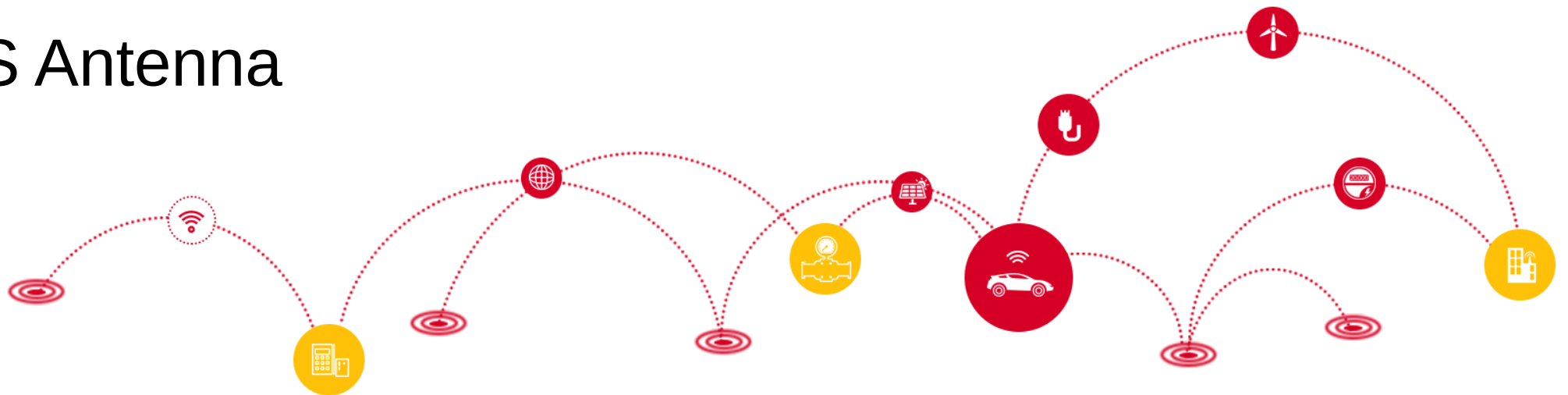
Frequency (MHz)	698–960, 1710–2690
Peak Gain (dBi)	3
VSWR	≤ 2.94
Average Efficiency	698–960 MHz: 40 %; 1710–2690 MHz: 50 %;
Antenna Shape	Combined antenna box
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	Φ 81.5 × 16 with default cable length 2000 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



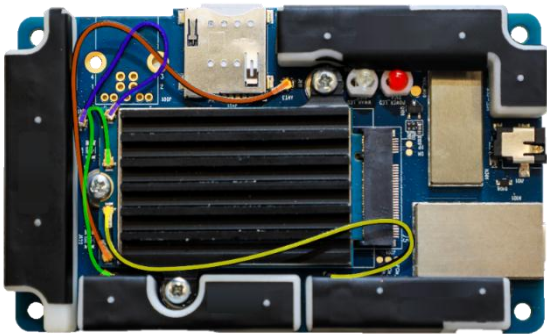
OC: YB0008AA

Frequency (MHz)	4G Main: 698–960, 1710–2690; 4G DIV: 1710–2690; GNSS: 1575.42 ±5, 1561.098 ±5
Peak Gain (dBi)	LNA: 28 ±2; 2G/3G/4G: 2.94; 4G DIV: 3.96
VSWR	≤ 4
Average Efficiency	698–960 MHz: 30 %; 1710–2690 MHz: 50 %;
Antenna Shape	Combined antenna box
Application	4G/3G/2G/GPS&BD
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	Φ 84 × 17.5 with default cable length 300 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

External Rubber Antenna
RF Cable
External Waterproof Antenna
Embedded Antenna
GNSS Antenna



5G/4G/3G/2G Antenna



OC: YF0002AA, YF0002BA, YF0002CA, YF0002DA

Frequency (GHz)	700-6G-1/700-6G-2	0.7–6
	1700-6G-1/1700-6G-2	1.7–6
Peak Gain (dBi)	700-6G-1	2.7
	700-6G-2	4.2
	1700-6G-1	2.0
	1700-6G-2	3.7
VSWR	700-6G-1	≥ 1.4
	700-6G-2	≥ 1.0
	1700-6G-1	≥ 1.0
	1700-6G-2	≥ 1.2
Average Efficiency	700-6G-1	0.7–6 GHz: 35 %
	700-6G-2	0.7–6 GHz: 30 %
	1700-6G-1	1700–6 GHz: 30 %
	1700-6G-2	1700–6 GHz: 35 %
Application	4G/3G/2G, 2.4G/5.8G Wi-Fi	
Impedance (Ω)	50	
Size (mm)	700-6G-1	60.10 × 12.25
	700-6G-2	50.25 × 20.10
	1700-6G-1	41.25 × 10.25
	1700-6G-2	37.35 × 9.75
Quectel Module	Typical Modules: RM500Q (Customized)	

4G/3G/2G Antenna



OC: YF0003AA

Frequency (MHz)	824–960; 1710–2690
Peak Gain (dBi)	5.0
VSWR	≤ 5
Average Efficiency	824–960 MHz: 25 %; 1710–2690 MHz: 60 %
Application	4G/3G/2G
Connector	IPEX I
Impedance (Ω)	50
Size (mm)	62.0 × 19.0 (customized cable length)
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YF0004AA

Frequency (MHz)	824–960, 1710–2690
Peak Gain (dBi)	5.0
VSWR	≤ 4.5
Average Efficiency	824–960 MHz: 30 %; 1710–2690 MHz: 60 %
Application	4G/3G/2G
Connector	IPEX I
Impedance (Ω)	50
Size (mm)	87.17 × 20.0 (customized cable length)
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

5G/4G/3G/2G Antenna



OC: YF0005AA

Frequency (MHz)	700–6000
Peak Gain (dBi)	5.0
VSWR	≤ 2.5
Average Efficiency	700–960 MHz: 30 %; 1710–2690 MHz: 60 %; 3300–5900 MHz: 50 %
Application	5G/4G/3G/2G
Connector	IPEX I
Impedance (Ω)	50
Size (mm)	112.5 × 16.2 (customized cable length)
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12



OC: YF0008AA

Frequency (MHz)	700–6000
Peak Gain (dBi)	5.0
VSWR	≤ 2.5
Average Efficiency	700–960 MHz: 30 %; 1710–2690 MHz: 60 %; 3300–5900 MHz: 50 %
Application	5G/4G/3G/2G
Impedance (Ω)	50
Connector	IPEX IV
Size (mm)	112.5 × 16.2 (customized cable length)
Quectel Module	Typical Modules: RG500Q/RM500Q/EM20/EP06/EG06/EG12/EG18/EM06/EM12

4G/3G/2G Antenna



OC: YF0006AA

Frequency (MHz)	690–960, 1710–2170, 2300–2690
Peak Gain (dBi)	6.0
VSWR	≤ 3.0
Average Efficiency	690–960 MHz: 25 %; 1710–2690 MHz: 50 %
Application	4G/3G/2G
Connector	U.FL I
Impedance (Ω)	50
Size (mm)	50 × 25 × 0.13 (customized cable length)
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

5G/4G/3G/2G PCB Antenna



OC: YP0001AA

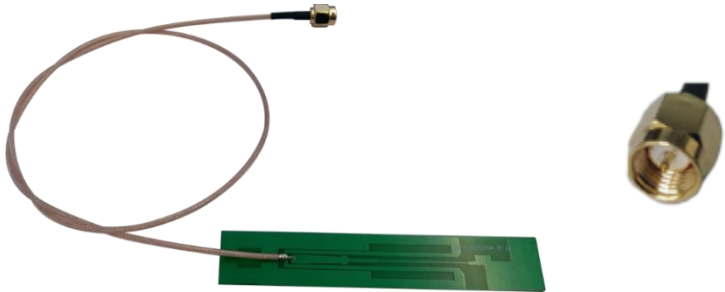
Frequency (MHz)	600–6000
Peak Gain (dBi)	2
VSWR	≤ 3.0
Average Efficiency	600–960 MHz: 30 %; 1710–2690 MHz: 50 %; 3300–6000 MHz: 50 %
Antenna Shape	PCB
Application	5G/4G/3G/2G
Connector	IPEX IV
Impedance (Ω)	50
Size (mm)	107.25 × 14.0 × 0.4 (customized cable length)
Quectel Module	Module Series: 5G/LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G PCB Antenna



OC: YF0007AA

Frequency (MHz)	600–960, 1427.9–1495.9, 1710–2170, 2300–2700
Peak Gain (dBi)	4.7
VSWR	≤ 5.0
Average Efficiency	600–960 MHz: 20 %; 1710–2690 MHz: 50 %;
Application	4G/3G/2G
Connector	U.FL I
Impedance (Ω)	50
Size (mm)	50 × 25 × 0.85 (customized cable length)
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YCW001AA

Frequency (MHz)	824–2690
Peak Gain (dBi)	2
VSWR	≤ 3.0
Average Efficiency	824–960 MHz: 25 %; 1710–2690 MHz: 50 %
Application	4G/3G/2G
Connector	SMA Male (with center pin)
Impedance (Ω)	50
Size (mm)	94.06 × 16.20 × 1.05 with default cable length 500 mm
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

4G/3G/2G SMD Antenna



OC: YC0003AA

Frequency (MHz)	698–960, 1695–2200, 2300–2700
Peak Gain (dBi)	5.5
VSWR	≤ 3.0
Average Efficiency	698~960 MHz: 30 %; 1695~2700 MHz: 50 %
Antenna Shape	SMD
Application	4G/3G/2G
Impedance (Ω)	50
Size (mm)	40 × 7 × 3
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module



OC: YC0001AA

Frequency (MHz)	698–960, 1710–2690
Peak Gain (dBi)	3.0
VSWR	≤ 4.0
Average Efficiency	698–960 MHz: 30 %; 1710–2690MHz: 50 %
Antenna Shape	SMD
Application	4G/3G/2G
Impedance (Ω)	50
Size (mm)	35 × 8.5 × 3
Quectel Module	Module Series: LTE-A/LPWA/LTE-Standard/GSM/GPRS/Wi-Fi/Smart Module

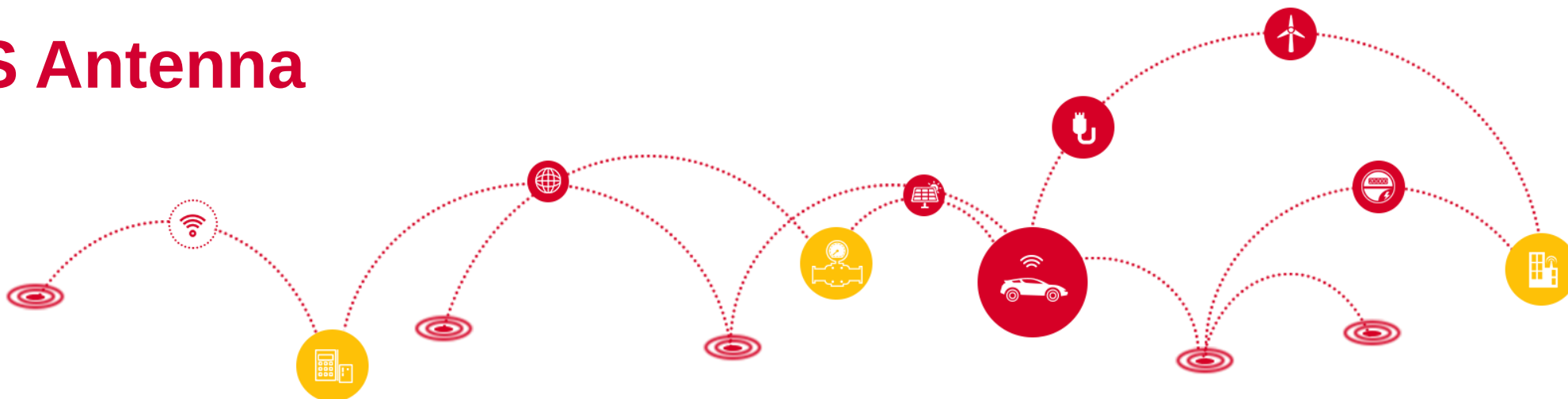
External Rubber Antenna

RF Cable

External Waterproof Antenna

Embedded Antenna

GNSS Antenna



GNSS Patch Antenna – Passive Ceramic Antenna



OC: YG0018AA

Center Frequency (MHz)	1575.42
Size (mm)	15 × 15 × 4
Peak Gain (dBic typ.)	2.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1



OC: YG0008AA

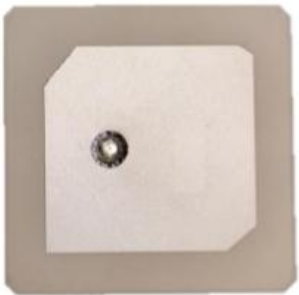
Center Frequency (MHz)	1575.42
Size (mm)	18 × 18 × 4
Peak Gain (dBic typ.)	2.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1

GNSS Patch Antenna – Passive Ceramic Antenna



OC: YG0010AA

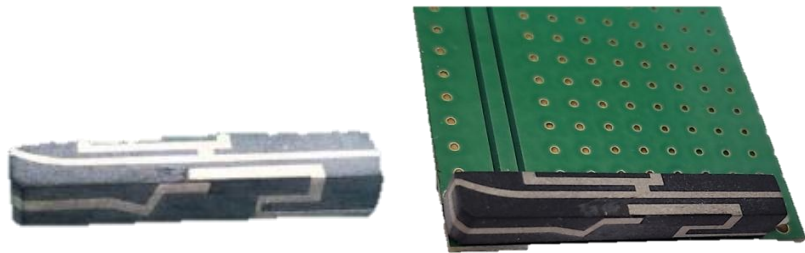
Center Frequency (MHz)	1575.42
Size (mm)	25 × 25 × 4
Peak Gain (dBic typ.)	4.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1



OC: YG0019AA

Center Frequency (MHz)	1575.42
Size (mm)	36 × 36 × 4
Peak Gain (dBic typ.)	5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1

GNSS Antenna – Passive L1&L5 Antenna



OC: YC0008AA

Center Frequency (MHz) 1575.42, 1176.45

Size (mm) 30 × 5 × 5

Peak Gain (dBic typ.) 2

Polarization Linear

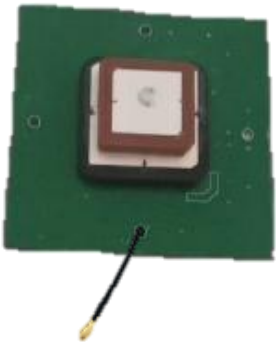
Max Zenith Axial Ratio (dB) N/A

LNA Gain (dBi) N/A

Max Overall Gain (dBi) N/A

Operation Voltage (V) N/A

Application L1/L5



OC: YG0030AA

Center Frequency (MHz) 1575.42, 1176.45

Size (mm) 25 × 25 × 4 (lower layer);
18 × 18 × 4 (upper layer)

Peak Gain (dBic typ.) 3 @ 52 × 52 mm Patch Ground

Polarization R.H.C.P

Max Zenith Axial Ratio (dB) 3

LNA Gain (dBi) N/A

Max Overall Gain (dBi) N/A

Operation Voltage (V) N/A

Application L1/L5

GNSS Antenna – Passive L1&L5 Patch Antenna



OC: YG0033AA

Center Frequency (MHz)	1575.42, 1176.45
Size (mm)	38 × 38 × 6.16 (lower layer); 25 × 25 × 4.76 (upper layer)
Peak Gain (dBic typ.)	4.0 @ 50 × 50 mm Patch Ground
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1/L5



OC: YVO001AA

Center Frequency (MHz)	1575.42, 1176.45
Size (mm)	38 × 38 × 6.16 (lower layer); 25 × 25 × 4.76 (upper layer)
Peak Gain (dBic typ.)	4.0 @ 50 × 50 mm Patch Ground
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	L1/L5

GNSS Antenna – External Passive Antenna



OC: YYS001CA

Center Frequency (MHz)	1559–1575–1602
Size (mm)	50.9 × 38.6 × 17
Peak Gain (dBic typ.)	2
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dBi)	N/A
Max Overall Gain (dBi)	N/A
Operation Voltage (V)	N/A
Application	GPS L1/BD B1/GLONASS L1
Connector	SMA Male (with center pin), cable length 1500 mm

GNSS Patch Antenna – Active Patch Antenna



OC: YCN001BA

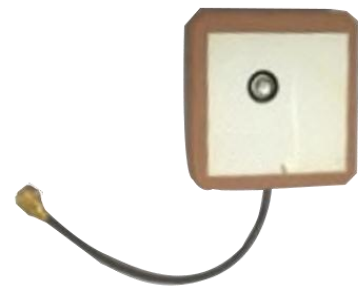
Center Frequency (MHz)	1575–1602
Size (mm)	15 × 15 × 6.9
Peak Gain (dBic typ.)	2.0
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	/
LNA Gain (dB)	28
Max Overall Gain (dB)	30.4
Operation Voltage (V)	3.0 ±0.6
Application	GPS L1/BD B1/GLONASS L1
Connector	IPEX I



OC: YG0021AA

Center Frequency (MHz)	1560–1605
Size (mm)	18.4 × 18.4 × 8.86
Peak Gain (dBic typ.)	2.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	/
LNA Gain (dB)	19
Max Overall Gain (dB)	21.5
Operation Voltage (V)	3.0 ±0.1
Application	GPS L1/BD B1/GLONASS L1
Connector	IPEX I

GNSS Patch Antenna – Active Patch Antenna



OC: YG0015AA

Center Frequency (MHz)	1575–1615
Size (mm)	25 × 25 × 8.25
Peak Gain (dBic typ.)	2
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	/
LNA Gain (dB)	27
Max Overall Gain (dB)	29
Operation Voltage (V)	3.0 ±0.6
Application	GPS L1/GLONASS L1
Connector	IPEX I



OC: YG0016AA

Center Frequency (MHz)	1561, 1575, 1602, 1606
Size (mm)	36.01 × 36.01 × 10.25
Peak Gain (dBic typ.)	4.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	/
LNA Gain (dB)	27
Max Overall Gain (dB)	31.5
Operation Voltage (V)	3.3 ±0.6
Application	GPS L1/BD B1/GLONASS L1
Connector	SMA Male (with center pin), RG174 L = 130 mm

GNSS Patch Antenna – Active L1&L5 Patch Antenna



OC: YJW001AA

Center Frequency (MHz)	1164–1189, 1559–1610
Size (mm)	50 × 50 × 21.62
Peak Gain (dBic typ.)	2.5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dB)	28
Max Overall Gain (dB)	30.5
Operation Voltage (V)	2.7–5.5
Application	GPS L1/L5 /BD B1/GLONASS L1
Connector	SMAMale (with center pin), cable length 300 mm

GNSS Antenna – Active L1&B1 Antenna



OC: YG0026AA

Center Frequency (MHz)	1561, 1575
Size (mm)	50.3 × 38.4 × 17.1
Peak Gain (dBic typ.)	5
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dB)	28
Max Overall Gain (dB)	33.5
Operation Voltage (V)	2.8–3.6
Application	GPS L1/BD B1/GLONASS L1
Connector	SMA Male (with center pin); Cable length 5030 mm

OC: YLY001CA

Center Frequency (MHz)	1568±10
Size (mm)	45.5 × 38 × 13.5
Peak Gain (dBic typ.)	3
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dB)	28
Max Overall Gain (dB)	31.5
Operation Voltage (V)	2.7–5.5
Application	GPS L1/BD B1
Connector	SMA Male (with center pin); Cable length 1000 mm

GNSS Antenna – Active L1&L5 Antenna



OC: YB0017AA

Center Frequency (MHz)	GPS L1/L5, BDB1/ B2, GLONASS L1
Size (mm)	61.5 × 56.5 × 23
Peak Gain (dBic typ.)	4
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dB)	22
Max Overall Gain (dB)	26
Operation Voltage (V)	3–5
Application	GPS L1/L5 /BD B1/GLONASS L1
Connector	SMA Male (with center pin); Cable length 3000 mm



OC: YG0028AA

Center Frequency (MHz)	1561–1602, 1166–1186
Size (mm)	Φ 54 × 38
Peak Gain (dBic typ.)	2
Polarization	R.H.C.P
Max Zenith Axial Ratio (dB)	3
LNA Gain (dB)	14.5 ±5
Max Overall Gain (dB)	16.5 ±5
Operation Voltage (V)	1.7 ±3.3
Application	GPS L1/L5 /BD B1/GLONASS L1
Connector	SMA Male (with center pin); Cable length 3000 mm

Thank you!

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