

# QuPanel LTE HP SISO

## Directional High Power multiband LTE SISO antenna

QuPanel LTE HP directional high gain antenna is predicted for 4G LTE mainly, but is compatible with 3G and 2G as well. The antenna improves the signal in rural/suburban and locations where the mobile signal is weak. That antenna is predicted to be installed on the buildings (on the pole or on the wall). Due to very wide working frequency range, the antenna is universal client for LTE bands like LTE700/800/1800/1900/2100/2300/2600. It's compatible with Teltonika: RUT230, TRB140, TRB141, TRB142, TRB145, TRM240, TRM250 and other SISO LTE/3G/2G modems and routers.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



SMA CONNECTOR



7 DBI GAIN



70° BEAMWIDTH



MADE IN EUROPE



## LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
<b>SUPPORTED LTE/5G BANDS</b>	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n85, n89, n90, n95, n97, n98, n100, n101, n256
<b>GAIN</b>	694 - 960 MHz : 7 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7 dBi
<b>FRONT-TO-BACK</b>	>10 dB
<b>VSWR</b>	<1.70, max <2.00
<b>BEAMWIDTH</b>	70°/70° ±15°
<b>POLARIZATION</b>	±45°
<b>IMPEDANCE</b>	50 Ω

## MECHANICAL SPECIFICATION

<b>MATERIALS</b>	ABS, aluminum, PTFE, Fiberglass
<b>INGRESS PROTECTION</b>	IP67
<b>DIMENSIONS</b>	272 x 276 x 96 mm 10.71 x 10.87 x 3.78 inch
<b>WEIGHT</b>	1.8 kg 3.97 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 80°C From -40°F to 176°F
<b>CABLE LENGTH</b>	5m (P/N: APLS1-H) or 10m (P/N: APLS1-H1) or Nf connector (P/N: APLS1-HN)
<b>CABLE TYPE</b>	LMR195 white
<b>CONNECTOR TYPE</b>	1x SMA
<b>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch

# FREQUENCY BANDS

**LTE / 4G GSM**

617 MHz	5	8	12	13	14	17	18	960 MHz
	19	20	26	27	28	29	44	
	67	68	85	103	n81	n82	n83	
	n89	n100						

**LTE / 4G UMTS**

1710 MHz	1	2	3	4	9	10	25	2170 MHz
	33	34	35	36	37	39	n80	
	n84	n86	n95	n98	n101			

**LTE / 4G WCS DARS**

2300 MHz	30	40	n97					2400 MHz
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**LTE / 4G**

2400 MHz	7	38	41	53	69	n90		2700 MHz
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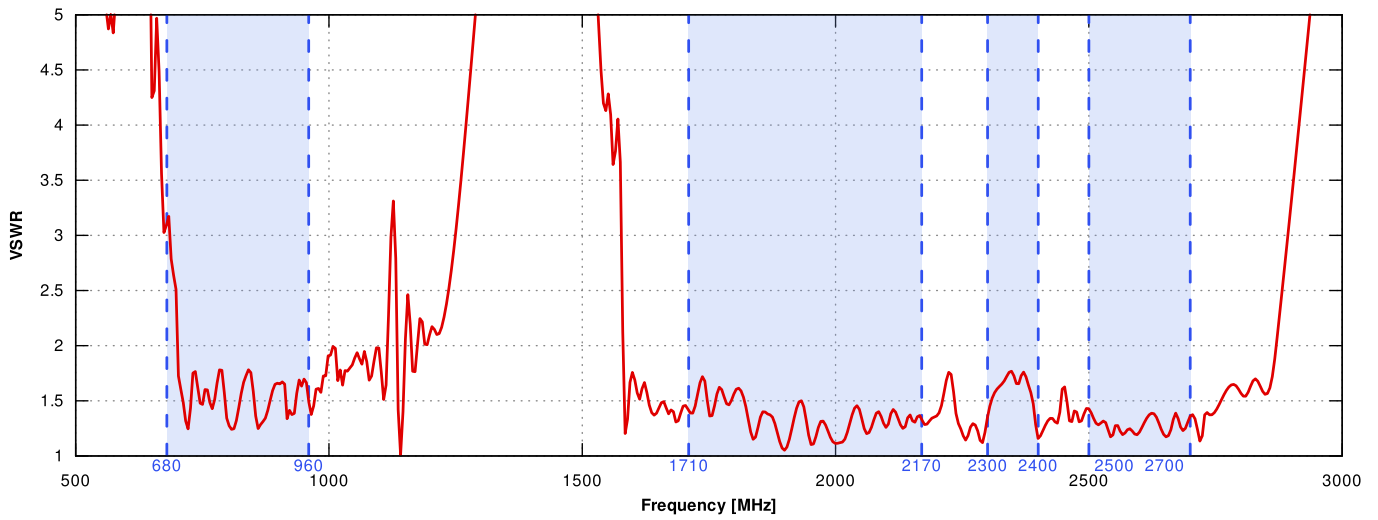
## **COMPATIBLE ROUTERS**

VARIANTS: APLS1-H, APLS1-H1

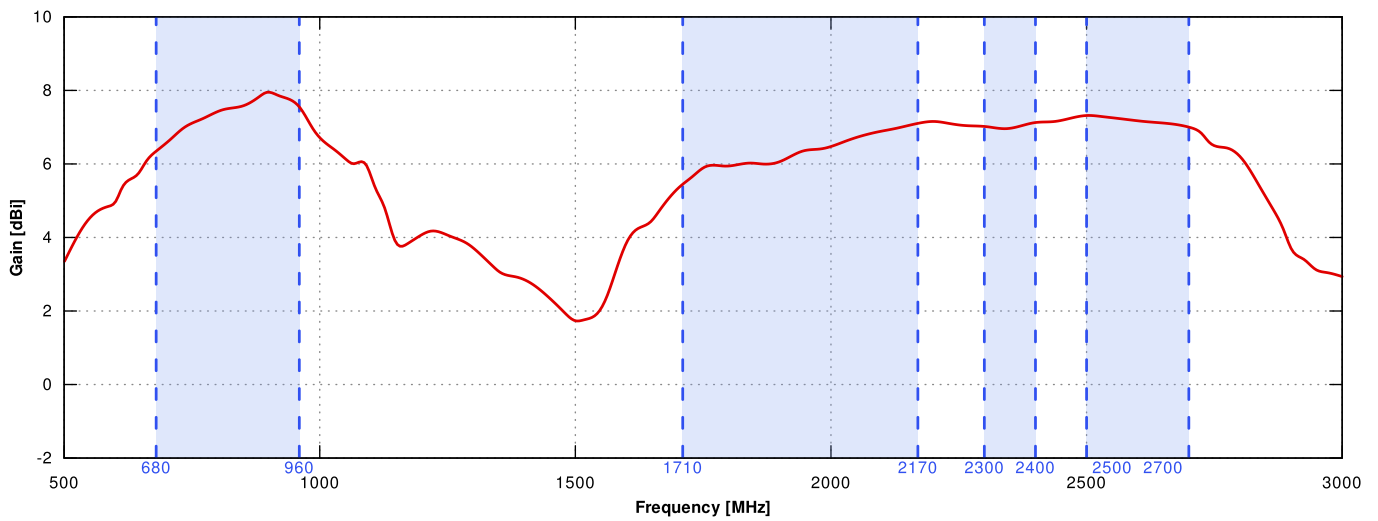
<b>TELTONIKA</b>	TRB140, TRB141, TRB142, TRB143, TRB145, TRB245, TRB246, TRB255
<b>ROBUSTEL</b>	EG5101, M1000 MP, M1200
<b>ETIC TELECOM</b>	RAS-C-100-LW
<b>FORTINET</b>	Industrial GPS Modem F7916
<b>FOUR-FAITH</b>	4G LTE WiFi Modem F2X16 V4, LoRa Router F8936-L, Sim Card WiFi Router F3X26Q, Wireless 4G LTE Router F3X26-TB, Wireless M-Bus Gateway F-R100WM
<b>MILESIGHT</b>	UR32L, UR32S, UR41
<b>ROBUSTEL</b>	EG5101, M1000 MP, M1200
<b>SIEMENS</b>	6GK7243-7KX30-0XE0, 6GK7243-7SX30-0XE0
<b>TELTONIKA</b>	TRB140, TRB141, TRB142, TRB143, TRB145, TRB245, TRB246, TRB255
<b>WAVETEL</b>	WM21 4G Cat M/NB Modem
<b>WLINK</b>	M100, M303, R100, R200

# PLOTS

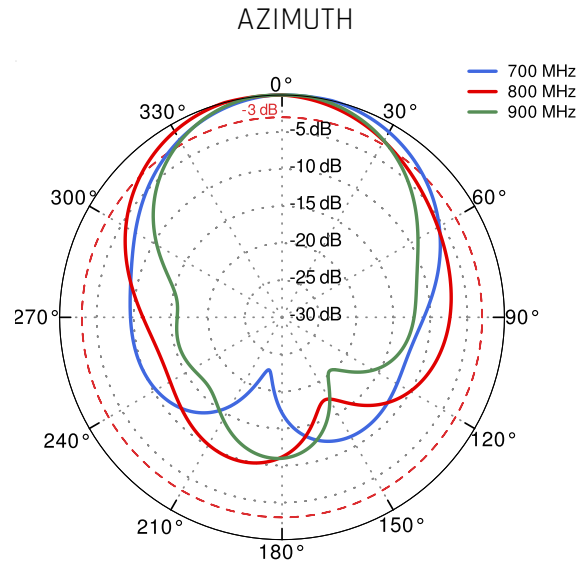
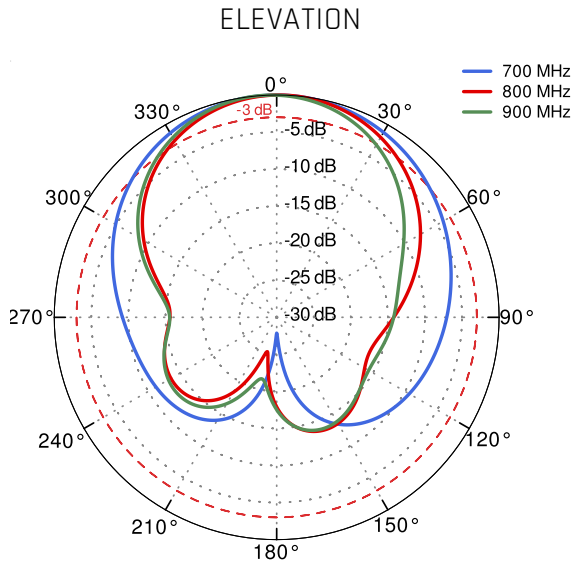
## VSWR



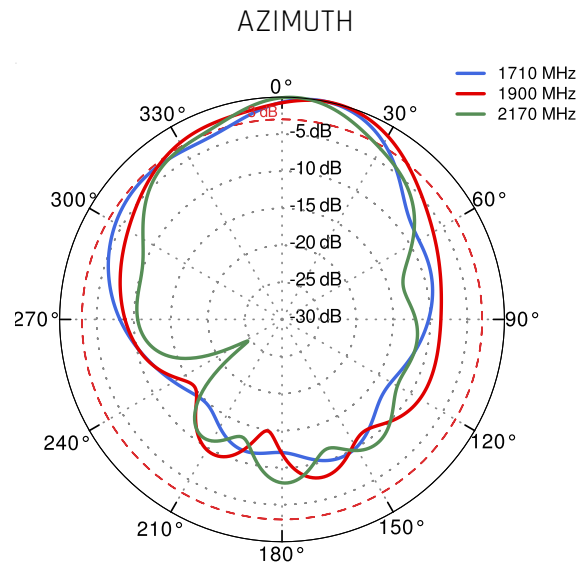
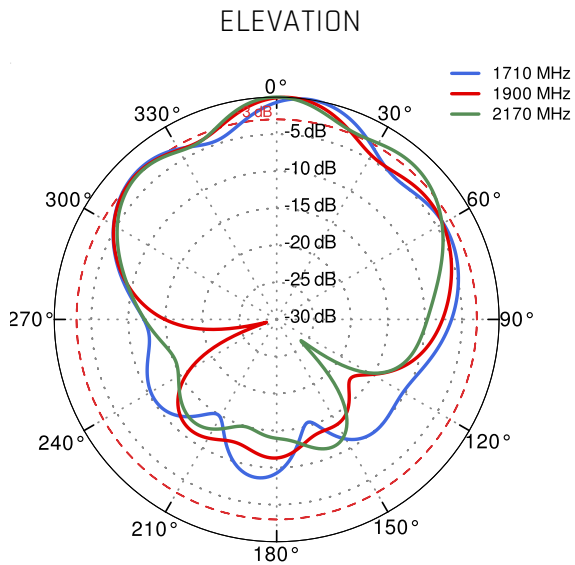
## Gain



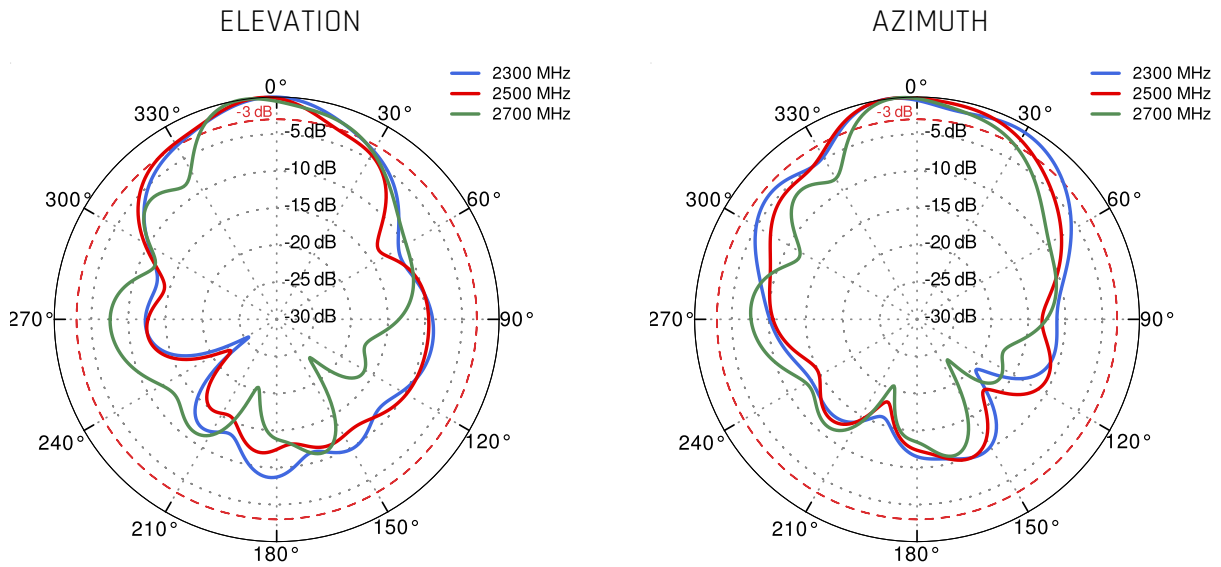
### From 700MHz to 900MHz



### From 1.71GHz to 2.17GHz



From 2.3GHz to 2.7GHz



## DIMENSIONS

