

# WALL BRACKET ANTENNA

Part Number:

HTL-02280

Please refer to end of document for full product order codes

## PRODUCT: HTL-02280

LTE-4G Cellular (2G, 3G)

### Technical Data

- Wall mounted robust wideband planar antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via [office@hubit.co.uk](mailto:office@hubit.co.uk)



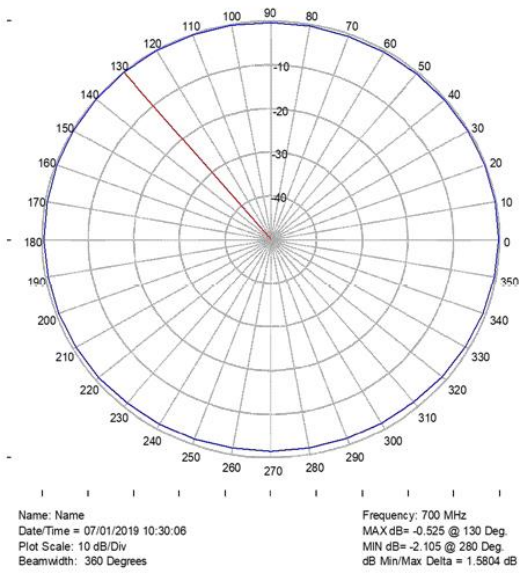
## MECHANICAL DATA

DIMENSIONS	270mm (H) Whip Tube x 16 (D) Whip Diameter
WEIGHT	355g
CONSTRUCTION MATERIALS	ABS UV Stable UL94 V0 (Whip) Stainless Steel (Bracket)
MOUNTING ARRANGEMENT	M10 Stainless Steel Split Nut combined with 3M Adhesive Pad Mounting on any surface (glass, metal, plastic etc.)
TEMPERATURE RANGE	-40 to +85°C
PROTECTION CLASS	IP66 (IEC 60529)
CABLE TYPE AVAILABLE	LL195 50 Ohm Low Loss / RG58
CABLE LENGTH	According to customer specification
CONNECTOR	According to customer specification
TEST CONDITIONS	Free space / 2,000mm LL195 cable / SMA male connector

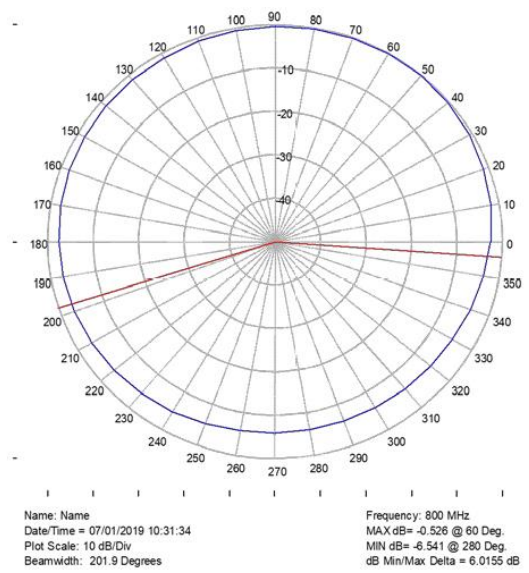
## CELLULAR LTE / 2G / 3G

FREQUENCY RANGE	LTE 700 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	698 - 960 MHz 1710 - 1880 MHz 1920 - 2170 MHz 2300 - 2700 MHz
AVERAGE GAIN	LTE 700 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	@ 790-960 MHz; 3.1dBi @ 1710-1880 MHz; 0.4dBi @ 1920-2170 MHz; 3.8dBi @ 2300-2700 MHz; 1.6dBi
IMPEDANCE	50 Ohm	
POLARISATION	Linear	
RADIATION PATTERN	Omni-Directional (individual patterns detailed below)	
MAX POWER @ 30°C	LTE 800 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	25 Watts @ 790-960 MHz 25 Watts @ 1710-1880 MHz 25 Watts @ 1920-2170 MHz 25 Watts @ 2300-2700 MHz
RETURN LOSS (VSWR)	≤ 2:1 (All Bands)	
RADIATOR TYPE	Dipole	

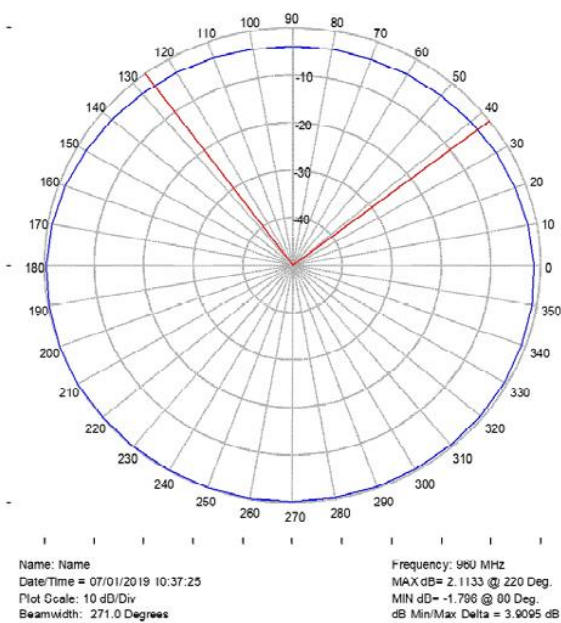
## RADIATING PATTERNS



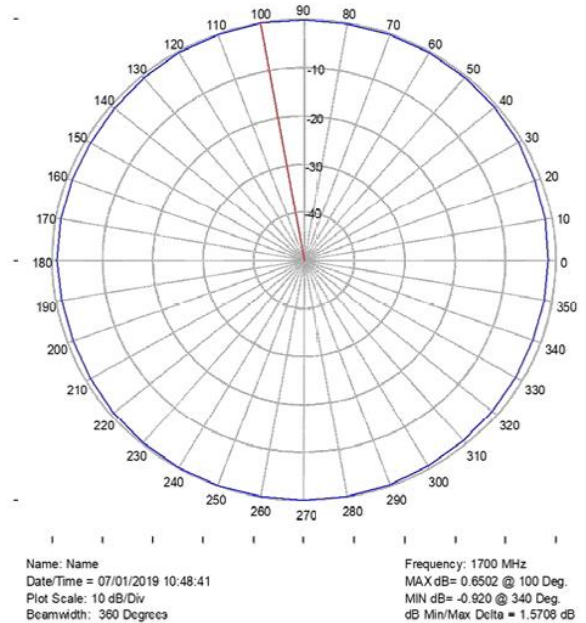
700MHZ ELEVATION CUT



800MHZ ELEVATION CUT

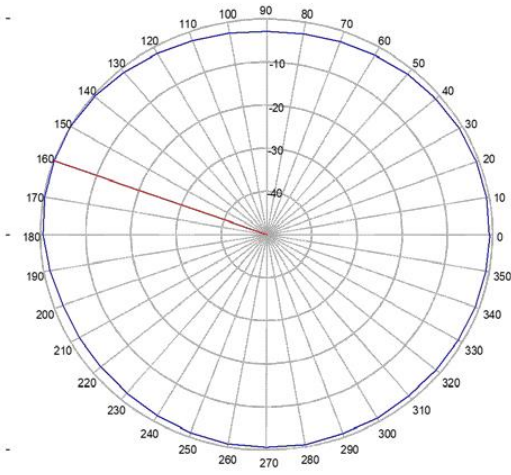


960MHZ ELEVATION CUT



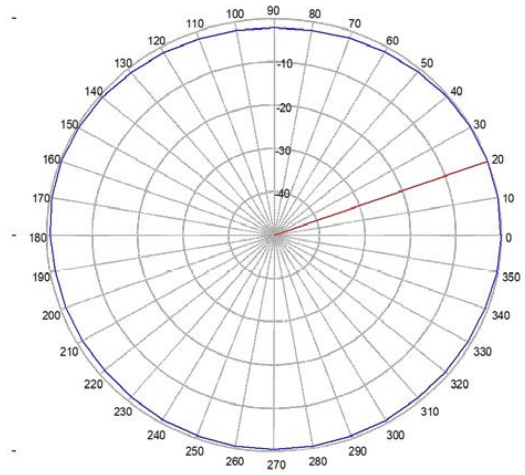
1700MHZ ELEVATION CUT

## RADIATING PATTERNS



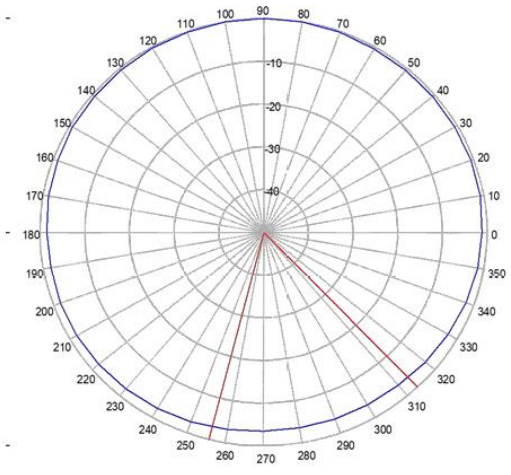
Name: Name  
Date/Time = 07/01/2019 10:40:22  
Plot Scale: 10 dB/Div  
Beamwidth: 360 Degrees  
Frequency: 1800 MHz  
MAX dB= 0.2480 @ 180 Deg.  
MIN dB= -2.602 @ 90 Deg.  
dB Min/Max Delta = 2.8505 dB

1800MHZ ELEVATION CUT



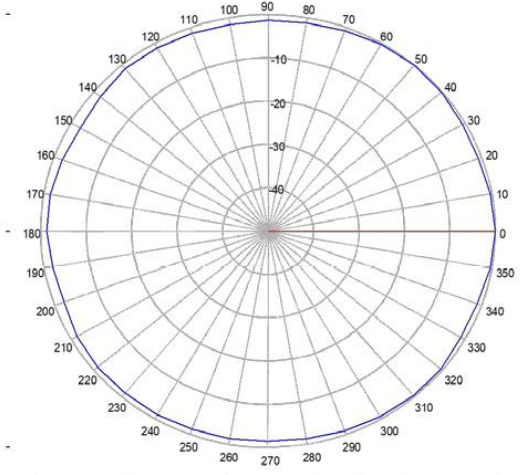
Name: Name  
Date/Time = 07/01/2019 10:50:37  
Plot Scale: 10 dB/Div  
Beamwidth: 360 Degrees  
Frequency: 1900 MHz  
MAX dB= 0.6394 @ 20 Deg.  
MIN dB= -1.510 @ 90 Deg.  
dB Min/Max Delta = 2.1502 dB

1900MHZ ELEVATION CUT



Name: Name  
Date/Time = 07/01/2019 10:43:15  
Plot Scale: 10 dB/Div  
Beamwidth: 302.2 Degrees  
Frequency: 2100 MHz  
MAX dB= 4.1848 @ 90 Deg.  
MIN dB= 0.6507 @ 280 Deg.  
dB Min/Max Delta = 3.5341 dB

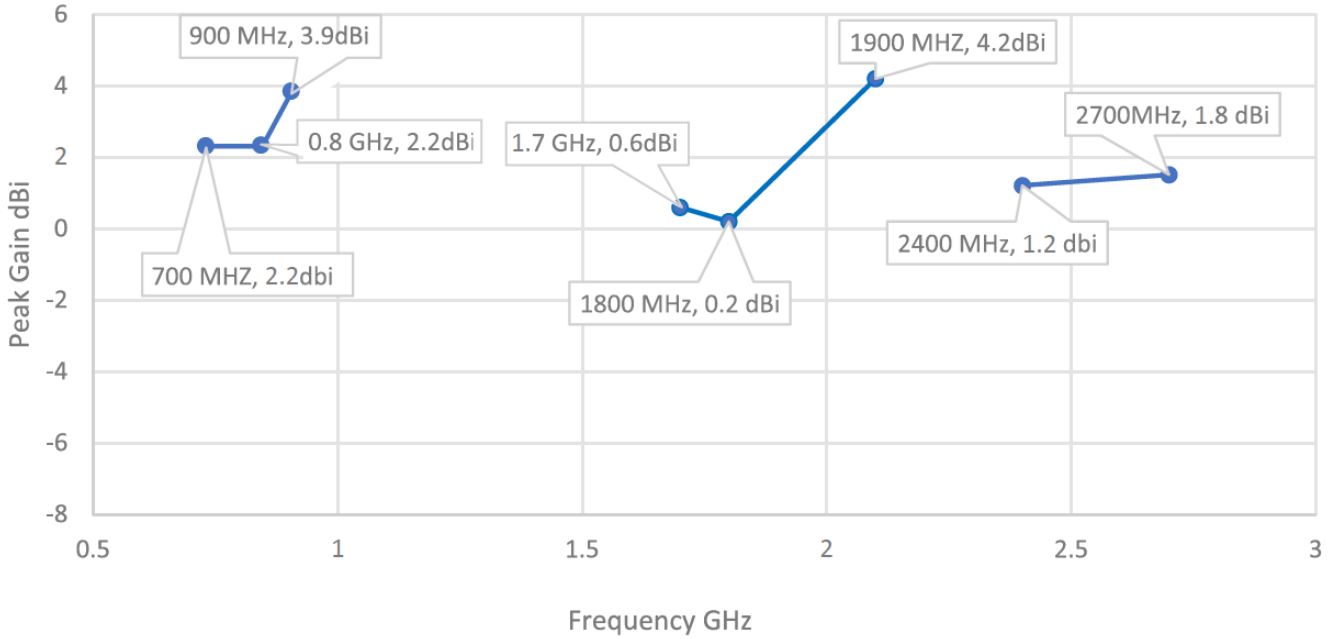
2100MHZ ELEVATION CUT



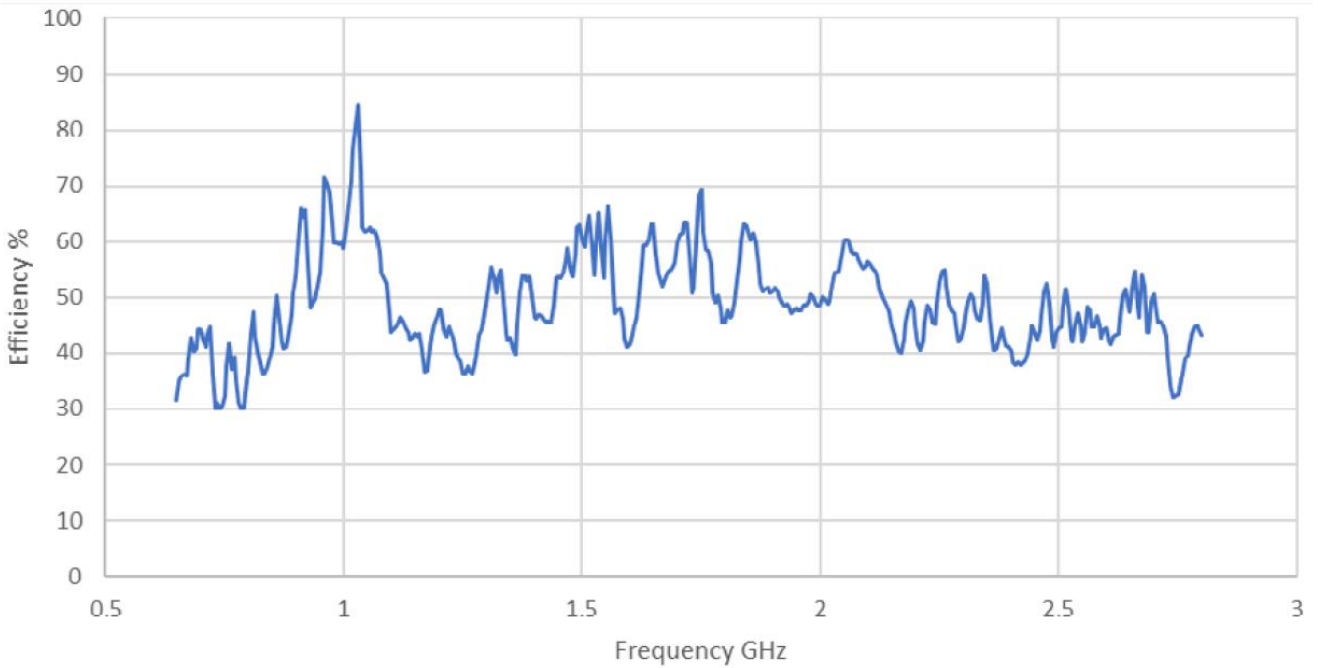
Name: Name  
Date/Time = 07/01/2019 10:45:35  
Plot Scale: 10 dB/Div  
Beamwidth: 360 Degrees  
Frequency: 2700 MHz  
MAX dB= 0.8240 @ 360 Deg.  
MIN dB= -1.498 @ 150 Deg.  
dB Min/Max Delta = 2.3228 dB

2700MHZ ELEVATION CUT

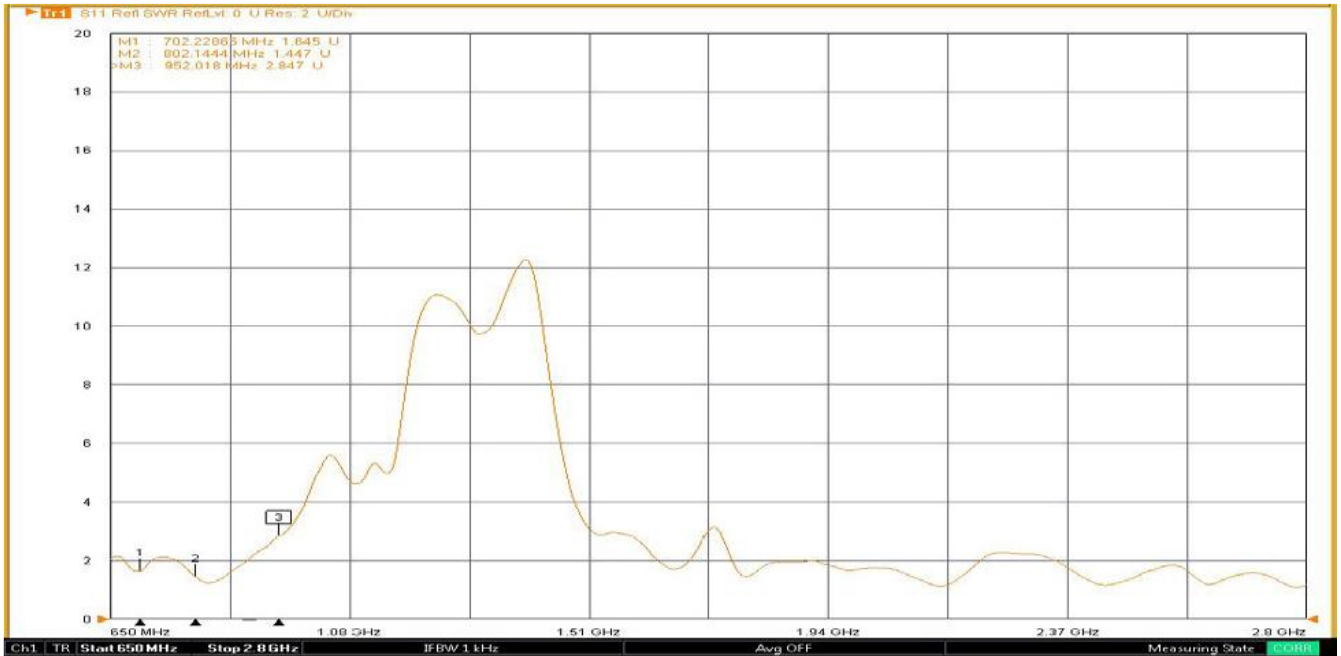
### PEAK GAIN (DBI)



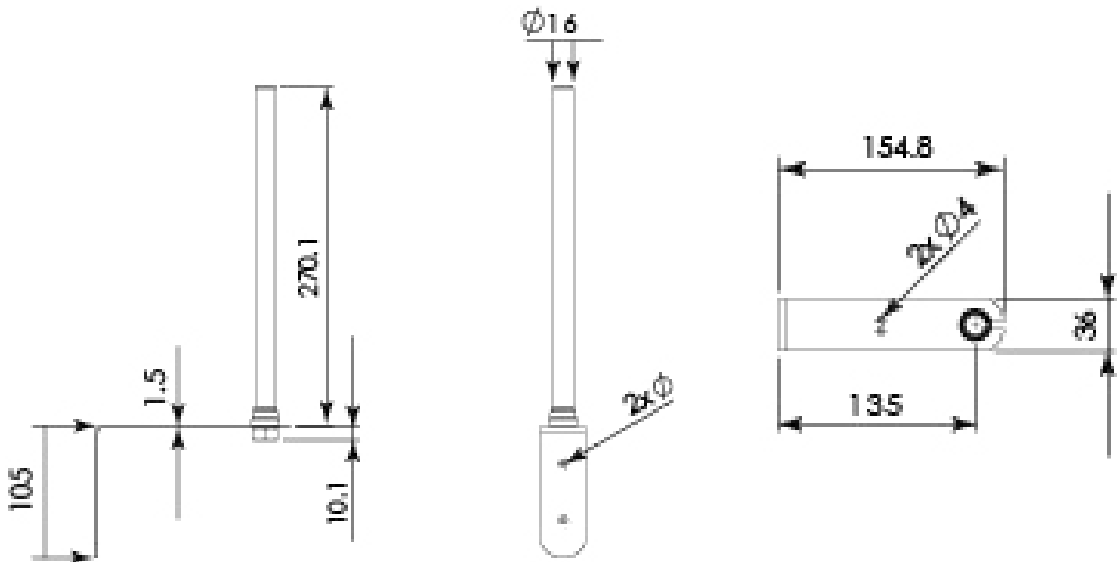
### RADIATED EFFICIENCY



## RETURN LOSS DATA (VSWR)



## CAD DATA



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## ORDER CODES

HTL-02280/XX

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Cable length

- HTL-02280/5M Hubit High-Gain LTE/4G wall bracket antenna with 5M RG58 cable & SMA-M connector
- HTL-02280/8M Hubit High-Gain LTE/4G wall bracket antenna with 8M RG58 cable & SMA-M connector
- HTL-02280/10M Hubit High-Gain LTE/4G wall bracket antenna with 10M RG58 cable & SMA-M connector
- HTL-02280/15M Hubit High-Gain LTE/4G wall bracket antenna with 15M RG58 cable & SMA-M connector
- HTL-02280/17M Hubit High-Gain LTE/4G wall bracket antenna with 17M RG58 cable & SMA-M connector
- HTL-02280/20M Hubit High-Gain LTE/4G wall bracket antenna with 20M RG58 cable & SMA-M connector
- HTL-02280/25M Hubit High-Gain LTE/4G wall bracket antenna with 25M RG58 cable & SMA-M connector