

ANT025 Antenna

ANT025 antenna consists of:

- an antenna for LoRa interface with an SMA connector.
- Antenna with adjustable mounting angle.
- an SMA connector to u.FL connector adaptor cable, length is 100 mm.
- panel mounting hardware at SMA connector side of adaptor cable.



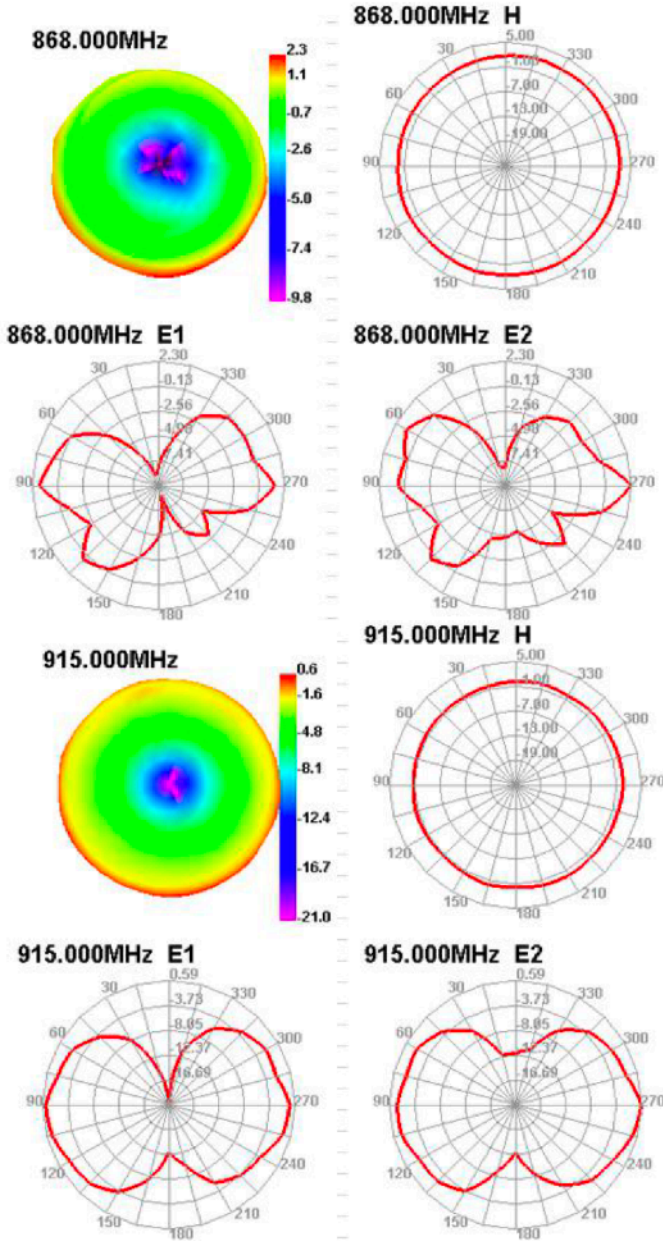
Common Specifications

Transmission Parameters	
Frequency (MHZ)	868-915MHz
Voltage Standing Wave Ratio (VSWR)	≤1.8
Gain (dBi)	≤2.3 dBi
Radiation Pattern	Omni
Polarization	Linear
Input Impedance (ohm)	50
Mechanical Parameters	
Connector	SMA
Antenna Length x Width (MM)	200x12mm
Shell Material	ABS
Environmental Parameters	
Operating temperature	-30°C~+80°C
Operating Humidity	40~85%

ANT025 Antenna Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
860	73.71	-1.32	2.03	-0.12
861	73	-1.37	1.95	-0.2
862	73.35	-1.35	1.87	-0.28
863	74.53	-1.28	1.95	-0.2
864	76.45	-1.17	1.93	-0.22
865	78.54	-1.05	2.12	-0.03
866	80.47	-0.94	2.12	-0.03
867	81.68	-0.88	2.28	0.13
868	81.77	-0.87	2.3	0.15
869	81.02	-0.91	2.3	0.15
870	80.04	-0.97	2.25	0.1
900	66.31	-1.78	1.06	-1.09
905	63.12	-2	0.75	-1.4
910	62.67	-2.03	0.73	-1.42
915	61.34	-2.12	0.59	-1.56
920	68.85	-1.62	1.04	-1.11
925	67.57	-1.7	0.91	-1.24
930	76.3	-1.17	1.39	-0.76

ANT025P Radiation Patterns



Test Equipment and Set Up

The following test equipment are used.

- Network Analyzer: Agilent 8753D, 5071B
- Communication test set: Agilent E5515C
- Test set up is below.

