

Peplink

3-in-1 Multi Purpose Outdoor Omni Antenna

PRODUCT CODE: ACW-854

FEATURES:

- 2 x Cellular (2G/3G/4G) Antennas (698~960MHz, 1710~2170MHz, 2300~2700MHz, 2900-3500MHz)
 - 1*MIMO main antenna
 - 1*MIMO diversity antenna
- 1 x GPS/GLONASS 1575.42/1602MHz Active Antenna
- IP67 Waterproof
- High Efficiency / Peak Gain Outdoor Antenna
- RoHS Compliant



SPECIFICATION

Cellular 2G/3G/4G MIMO

	LTE	GSM 850	GSM 900	DCS	PCS	WCDMA I	ISM	LTE
Frequency (MHz)	698-787	824-896	880-960	1710-1880	1850-1990	1920-2170	2400-2500	2600-3500
MIMO 1								
VSWR (max.)	2.5	2.5	3	2.5	2.5	2.5	3	2.5
Efficiency	66.17	51.88	47,87	39.97	47.67	45.97	28.73	38.35
Peak Gain (dBi)	2.52	1.48	1.15	1.03	1.22	1.22	0.15	3.20
MIMO 2								
VSWR (max.)	3.5	3.5	3.5	2.5	2.5	2.5	2	2.5
Efficiency (%)	35.98	18.41	20.24	40.85	35.42	37.68	42.27	35.24
Peak Gain (dBi)	1.56	-2.08	-2.31	1.69	0.86	2.06	2.99	2.97
Polarization	Vertical							
Impedance	50Ω							

GPS-GLONASS

Centre Frequency	1575.42MHz / 1602MHz							
Bandwidth	10MHz							
Radiation Efficiency	50 % (without cable)							
Passive Gain @ Zenith	4.0 dBi typ (with $\psi=140$ mm ground)							
VSWR	2							
Impedance	50Ω							
DC Power Input Range	1.8V ~ 5V							
DC input	1.8V		3.3V		4.0V		5.5V	
MHz	1575.42	1602	1575.42	1602	1575.42	1602	1575.42	1603
VSWR	2	2	2	2	2	2	2	2
LNA Gain	17	17	29.2	29	31	31	32.3	32
Noise Figure	3.4	3.4	3.1	3.1	3.2	3.2	3.4	3.4
Power Consumption	3.2	3.2	7.5	7.5	9.4	9.4	15	15
Band Attenuation	1520MHz: -20Db 1642MHz: -20dB		1520MHz: -20db 1642MHz: -20dB		1520MHz: -20db 1642MHz: -20dB		1520MHz: -20Db 1642MHz: -20dB	
Cable	3m RG-174 standard							
Connector	SMA(M) standard							

Mechanical

Antenna Dimensions	Height 85.7mm x Diameter 145.6mm
Casing	Wonderloy PC-540 PC/ABS Alloy
Waterproof	IP67

2G/3G/4G MIMO 1	3M Low Loss CFD-200 SMA(M)
2G/3G/4G MIMO 2	3M Low Loss CFD-200 SMA(M)
GPS/GLONASS	3M RG-174 SMA(M)

Environmental

Operation Temperature	-40°C to 85°C
Storage Temperature	-40°C to 90°C
Humidity	Non-condensing 65°C 95% RH

* All measurements were conducted with 3 meters low loss CFD200 cable and RG-174 cable on GPS/Glonass

DRAWING

