

Peplink

4-in-1 Multi Purpose Outdoor Omni Antenna

PRODUCT CODE: ACW-853

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
- 1 x Wi-Fi 2.4GHZ/ 5GHz Antennas
- IP67 Waterproof
- High Efficiency / Peak Gain Outdoor Antenna
- RoHS Compliant



SPECIFICATION

Cellular 2G/3G/4G MIMO

Frequency Hz)	698~960	1710~2170	2300~2700	2900-3500
VSWR	3 Max			
Polarization	Vertical			
Impedance	50Ω			

2.4GHz / 5GHz ANTENNA

Frequency (GHz)	2.4 ~ 2.5	4.7 ~ 5.0	5.0 ~ 5.4	5.4 ~ 5.9
Peak Gain (dBi)	2.1	2.9	3.8	2.8
Average Gain (dBi)	-2.3	-3.6	-3.3	-3.8
Efficiency	60%	44%	46%	42%
VSWR	<=1.7:1			
Impedance	50Ω			
Polarization	Linear			
Radiation Pattern	Omni			

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	3 ~ 5V

DC input	3.3V		4.0V		5.5V	
MHz	1575.42	1602	1575.42	1602	1575.42	1602
VSWR	2	2	2	2	2	2
LNA Gain	29.2	29	31	31	32.3	32
LNA Gain	3.1	3.1	3.2	3.2	3.4	3.4
Power Consumption	7.5	7.5	9.4	9.4	15	15
Band Attenuation	1520MHz: -20dB		1520MHz: -20dB		1520MHz: -20dB	
	1520MHz: -20dB		1642MHz: -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)
2.4/5GHz MIMO 1	3M Low Loss CFD-200 RP-SMA(M)
GPS/GLONASS	3M RG-174 SMA(M)
Weight (Kg)	1.29

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

DRAWING

