

Long Range RTC Dongle



Antenna not included in the product package



FEATURES

CR02-W is a long range RTC dongle for outdoor lighting project syncing for all devices in one Zone with 984ft communication distance.

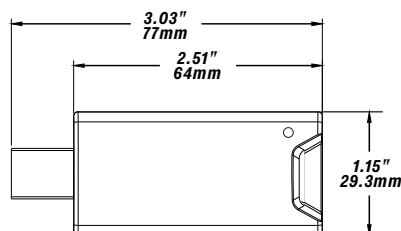
- Power by PPA102S through UTP devices
- Internal battery to keep time during power outage
- 1dbi/5dbi external antenna with long distance transmit and IP65
- Real Time Clock dongle with astronomical time-clock function
- Calculates sunrise/sunset time based on location

* Note: All application environments will not necessarily be able achieve max signal range due to factors such as signal obstructions, interference, and luminaire/housing design. Testing is recommended to ensure performance for the applications.

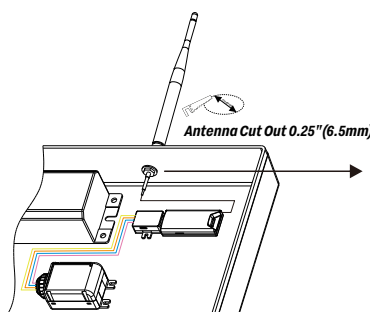
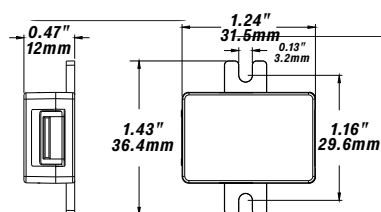
DIMENSION

Unit: inch/mm

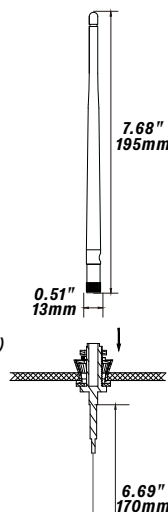
CR02-W



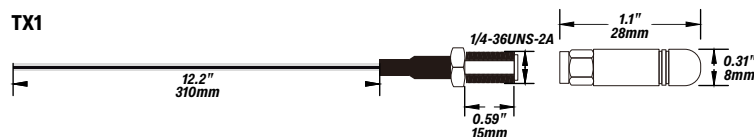
UTP



TX5



TX1



MODEL	DESCRIPTION
CR02-W	Long Range RTC Dongle
UTP	Accessory to Power the USB-A devices via PH2.0 connector
TX1	2.4G-1dbi Antenna
TX5	2.4G-5dbi Antenna

SPECIFICATIONS

Input Voltage: USB 5V

Input Current: 30mA Max

Bluetooth Transmit: 984ft Max

Radio Frequency: 2.4GHz \pm 75MHz

Bluetooth Version: 5.0

Housing Material: UL 94 V-0

Indoor / Outdoor Use

Operating Temperature: -30°C to 65°C,
-22°F to 149°F

Storage Temperature: -30°C to 85°C,
-22°F to 185°F

IP Rating: IP20

Color: White

Warranty: 5 years warranty

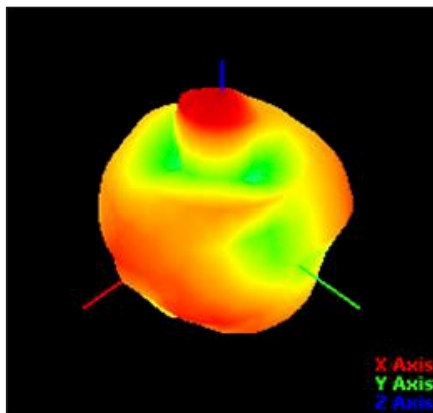
Comply to UL1376, RoHS

FCC ID: 2A26YLTkTVT2022

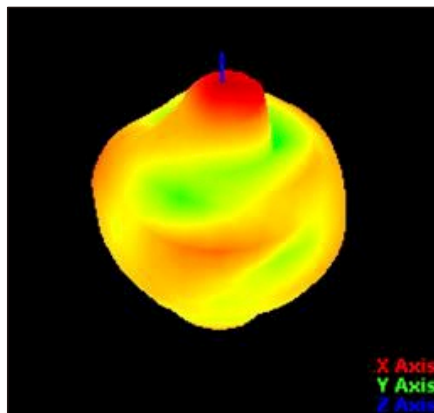
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DLC: NLTRC5KL0TN

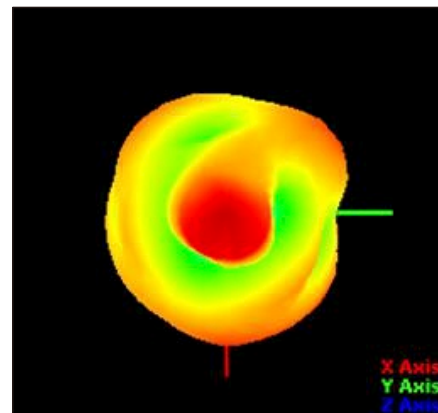
TX1 TRANSMISSION



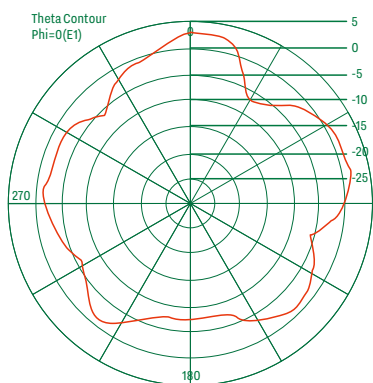
T45-P45



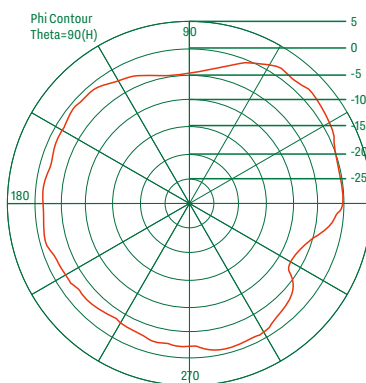
T45-P225



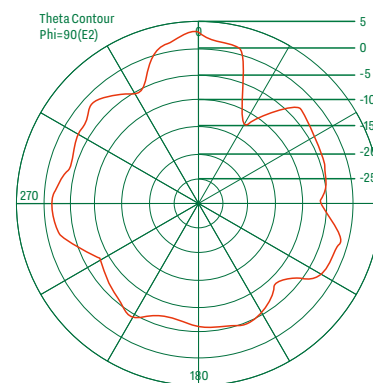
T0-P0



XOZ



XOY



YOZ

Wireless Signal Strength	
Transmission Distance	RSSI(dbm)
164ft(50m)	-43
328ft(100m)	-45
492ft(150m)	-49
656ft(200m)	-54

Note: The test transmission distance of two CR02-W

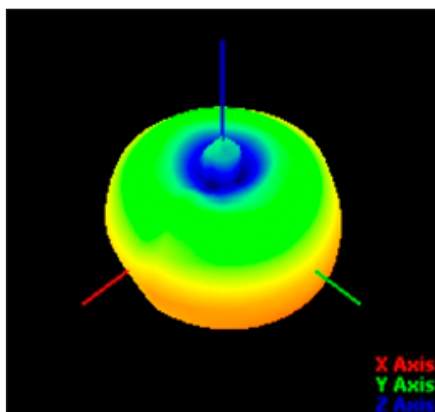


3.48
2.5
1.52
0.54
-0.44
-1.41
-2.39
-3.37
-4.35
-5.33
-6.31
-7.29
-8.27
-9.25
-10.23
-11.21
-12.19
-13.17

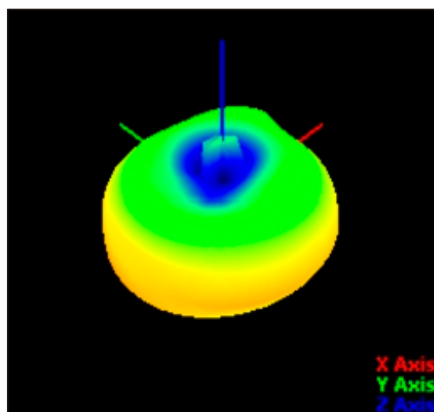
Coordination System Description:

Line Color	XYZ	Theta-Phi
Red L.	Axis X	Theta90-Phi0
Green L.	Axis Y	Theta90-Phi90
Blue L.	Axis Z	Theta0

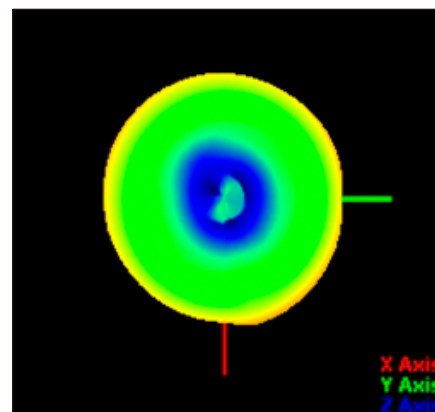
TX5 TRANSMISSION



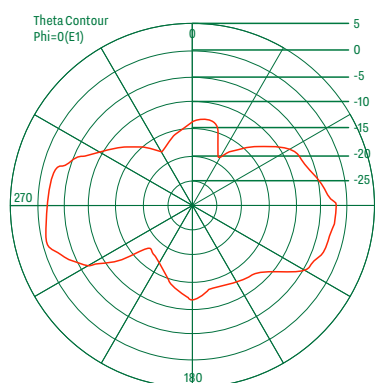
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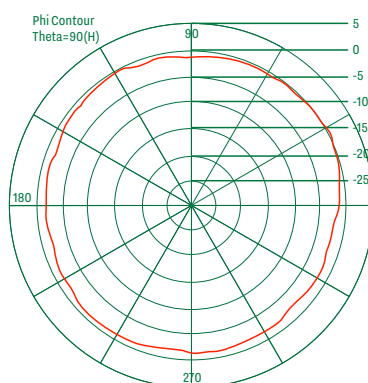
T45-P225



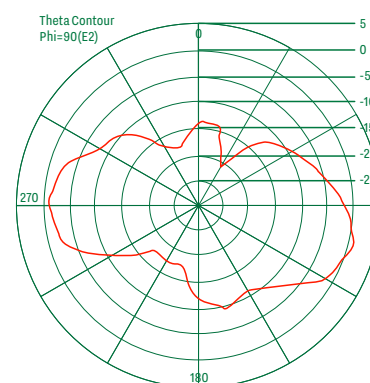
T0-P0



XOZ



XOY



YOZ

Wireless Signal Strength	
Transmission Distance	RSSI(dbm)
328ft(100m)	-69
492ft(150m)	-70
656ft(200m)	-72
820ft(250m)	-74
984ft(300m)	-75

Note: The test transmission distance of two CR02-W

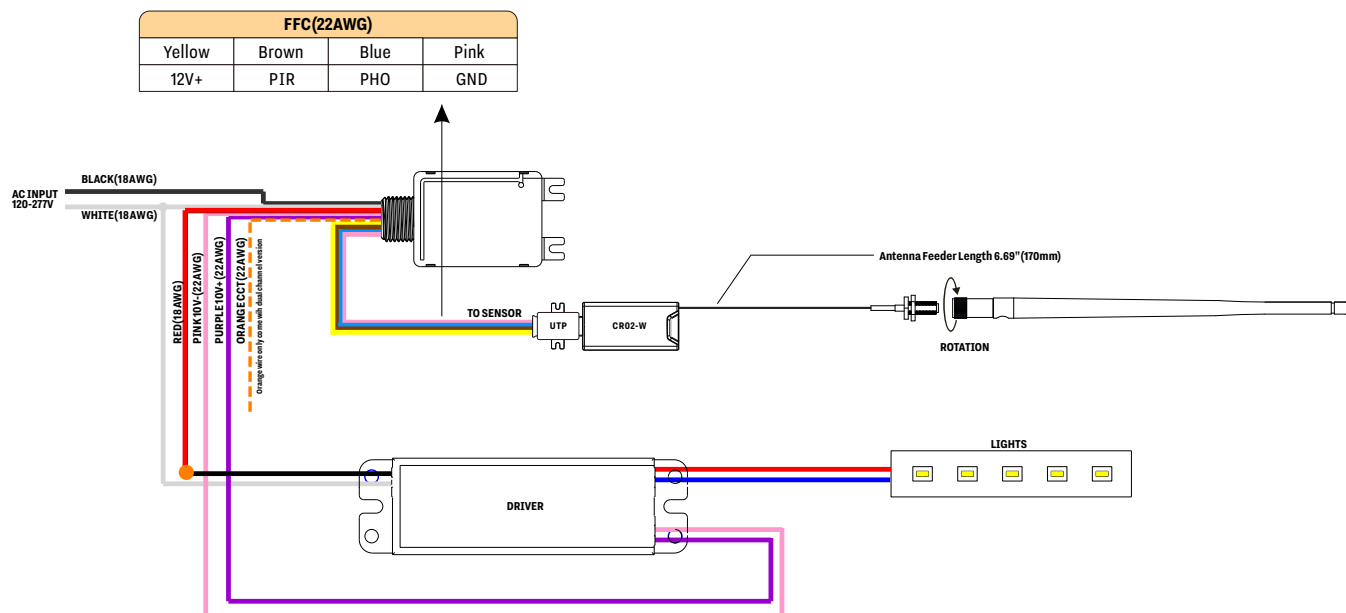


5.4
3.89
2.38
0.87
-0.65
-2.16
-3.67
-5.18
-6.69
-8.21
-9.72
-11.23
-12.74
-14.26
-15.77
-17.28
-18.79
-20.31

Coordination System Description:

Line Color	XYZ	Theta-Phi
Red L.	Axis X	Theta90-Phi0
Green L.	Axis Y	Theta90-Phi90
Blue L.	Axis Z	Theta0

MARKING



MARKING



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