

UA-210 Datasheet

Nanjing Woxu Communication Technology Co., Ltd.

www.woxuwireless.com

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1 Introduction

UA-210 is an IEEE 802.15.4a positioning anchor designed by Nanjing Woxu Communication, which can support ToF/TDoA positioning methods. The product is mainly applied in long-distance, high-precision positioning, and can be widely used in personnel positioning and warehouse material positioning in factories, justice, hospitals and other scenario.

The product adopts wired backhaul, and can be connected to the computing engine through a switch.

The product adopts wide-voltage DC 12~48 V power supply, and can also be powered through the network port, supports standard IEEE 802.3af/at PoE power supply, and can be centrally managed through a PoE switch.

The product supports a temperature range of -20 to 65 degrees Celsius. Support two installation methods: ceiling mounted and wall mounted.

2 Main feature

- IEEE 802.15.4a UWB
- IEEE 802.3 af/at PoE
- Built-in antenna

3 Picture



4 Specification

| Item | Description |
|-----------------|---------------------------|
| Overview | |
| Model | UA-210 |
| Specification | IEEE 802.15.4a |
| | IEEE 802.3af/at |
| Interface | DC power supply interface |
| | RJ45 10/100M LAN |
| Button | Default button |
| Input voltage | DC 12V ~ 48V |

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| | | |
|---------------------------|--------------------------|---------------------------------------|
| Average power consumption | < 5W | |
| Installation method | Ceiling and wall mounted | |
| LED | PWR | Green, power supplied, light on |
| | LAN | Green, wired data transmission, blink |
| | UWB | Green, in working, blink |

RF. Spec.

| | |
|---------------------|---|
| Working frequency | 3.24GHz ~ 3.74GHz (channel1) |
| | 3.77GHz ~ 4.24GHz (channel2) |
| | 6.24GHz ~ 6.74GHz (channel5) |
| Physical rate | 110 Kbps |
| | 850 Kbps |
| | 6.8 Mbps |
| Output power (25°C) | -41dBm/mHz (typical) , -24dBm/MHz (maximum) |
| Channel bandwidth | 500MHz |
| Antenna gain | 1dBi |

Software Spec.

| | |
|------------------|------|
| UWB working mode | TDoA |
| | TOF |

| | |
|--------------------------|--|
| Time synchronization | Wireless time synchronization |
| Configuration method | Server configuration |
| | Web configuration |
| Configuration management | Web-based user management interface (remote management/local management) |
| | TFTP/HTTP software upgrade |
| Network protocol | DHCP client-side |
| Uplink interface | Interface B |

Physical Spec.

| | |
|---------------|------------------------------|
| Size (mm) | 190*190*60 (Without bracket) |
| Weight (gram) | 468 |

Environment Spec.

| | |
|-------------|--|
| Temperature | Working temperature -20°C~65°C |
| | Storage temperature -30°C~80°C |
| Humidity | Working humidity: 0% ~90% non-condensing |
| RoHs | Compatible |

5 Delivery content

| Model | Specification | Quantity | Order number |
|---------|-------------------------|----------|------------------|
| UA-210 | UWU positioning anchor | 1 | AA01UA21000 0 |
| Bracket | Celling mounted bracket | 1 | / |

Accessories (not included in the scope of delivery, please contact Woxu in advance if you need it)

| Model | Specification | Order number |
|---------------|--------------------------------|--------------|
| Power adapter | 12V, 1.5A power adapter, black | AD0201120000 |