

Ubihub AP: WiFi Access Point & Smart Streetlight Controller



Specifications

Dimensions	386mm x 208mm x 69 mm
Weight	6.5kg
Power Surge Protection	20kV/10kA
Power Supply	120V to 480V
Average Power Consumption	45W
Power Source	Through NEMA Connector (ANSI C136.41)
IP Rating	IP65
Impact Rating	IK07
Ambient Operating Temp. Range	-40C to +50C
Backhaul	Regular fiber SFP+, Ethernet CAT5e, LTE CAT4. DOCSIS 3.0
External sensor connectivity	1 local PoE port
Firmware pdates	OTA
Security	NIST aligned (Edge, Cloud and Connectivity), Fedramp certified (Cloud Service Provider), FIPS 140-2 encryption alignment (Edge, Cloud and Connectivity), WPA3/WPA2 WiFi Security (Edge)



Lighting Controller Specifications

Lamp Interface	LED, CF and HID
Maximum Lamp Power	1200W@120V, 2400W@240V, 2770W@277V, 4800W@480V
On/Off	Photocell control, software programmable scheduling
Dimming Controls	0-10V, DALI, DALI2
Dimming Options	0-10V PWM, ability to hardwire an external sensor
External Sensor Interface	DALI/DALI2
Dimming Range	0% to 100%
Location Based Services	GPS, WiFi traffic movement, Bluetooth info beacons



WiFi Access Point Specifications

WiFi Protocols	802.11 ax/ac/n/a/g/b
Maximum WiFi Bandwidth	4Gbps
Channel Width	160MHz/80+80MHz/40MHz/20MHz
Maximum Associated Devices	1024 users for each access point connected through regular cable or LTE
Operation Spectrum	3 Total: 2 x 5GHz + 1 x 2.4GHz
MIMO	4 x 4 MIMO in all 3 radios
Antenna	12 integrated units
Maximum hops	3 Meshed Access Points for each 1 cable or LTE connected access point
WiFi Network Management	Remote/Centralized/Cloud

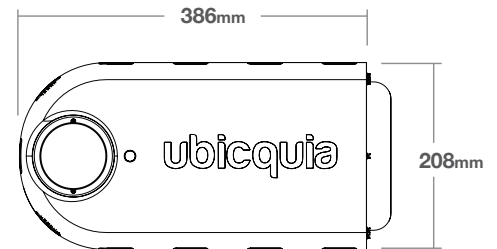


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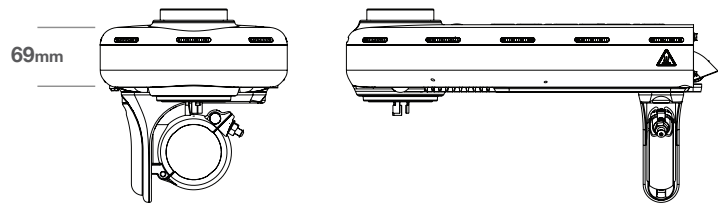
Power Meter Specifications

Accuracy	Class 0.5
Accuracy Verification	Infrared pulse
Line Voltage	90V to 506V (50/60Hz)
Line Voltage Accuracy	+/- 0.5%
Current Accuracy	+/- 0.5%
Power	Active/power factor
Energy Consumption	kWh
On/Off Cycles	Cycle count and cycle variation (fault detection)
Running Hour	Up to 10 years



Warranty

Standard	1 year
Extended (optional)	2 and 3 years



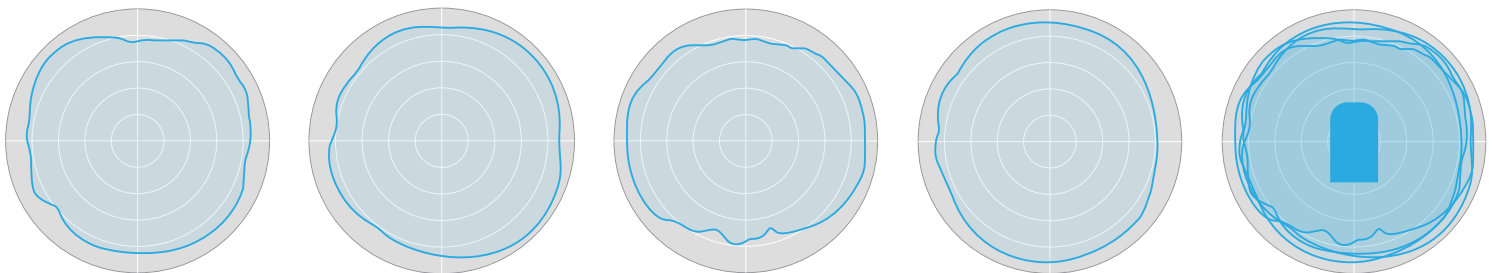
WiFi Access Point Features

- Optimized WiFi bandwidth
- Remote AP/Mesh management
- Remote setup and provisioning of devices
- Landing page/Captive portal – custom available on request
- Allowlist and denylist of IP ranges
- Allocation of bandwidth
- ID devices connected to the AP
- Apply group policies by devices

Lighting Controller Programmable Parameters

- Customer device management
- Scheduling controls
- Alert thresholds
- Sunrise/sunset offsets
- Photocell thresholds
- Luminaire fault detection
- Tilt detection
- Power loss after power failure
- Network communication failure
- Voltage sag and swell detection

Antenna Patterns



5.0 GHz Azimuth

5.0 GHz Elevation

2.4 GHz Azimuth

2.4 GHz Elevation

Combined Pattern