EnGenius

N300 2.4GHz Long range point-to-point CPE

EnGenius outdoor CPE design - High power, high sensitivity and strong reliability

EnStation2 is engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on the 2.4GHz band for accommodating heavy traffic services. The high-efficient 13dBi directional with polarization antenna provides an optimal, extended real outdoor throughput performance via point-to-point transmission.

Multiple operation modes
EnStation2 can operate into four different modes with Access Point, Client Bridge, Client Router and WDS mode. With powerful solutions and individual interfaces, EnStation2 can connect with multiple devices and extend wireless signals easily.

Effective management
EnStation2 is integrated with Network Management Software "EZ controller" and can offer a variety of uses in constructing scalable wireless network of all possible application and also allows centralized management via user-interface.
EnGenius has developed mulitple functions for maximum security, monitoring and easy management to ensure the optimal users' experience. Enstation2 provides a wide-range of authentication and encryption standard (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce the maximum security.

1. 10/100 LAN (PoE)
2. 10/100 LAN
3. Reset button
4. LED Signal

Key Features

+ IEEE 802.11 b/g/n compliant

+ Up to 300Mbps (2.4GHz)

+ 13dBi directional high gain antenna

+ 24V Proprietary PoE support

+ Waterproof housing IP55 rated

+ AP/CB/CR/WDS modus support

+ 4 SSIDs support per radio + VLAN

+ SNMP V1/V2c/V3, MIB I/II supported
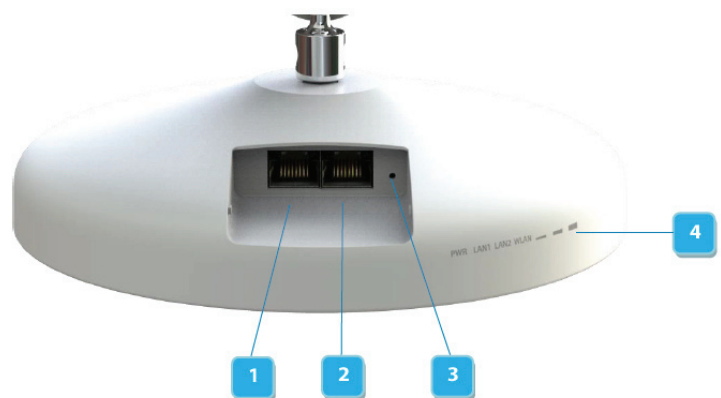
Wireless radio specification
2.4GHz 802.11b/g/n
- Max 300Mbps

Transmit power (Maximum value)
- 2.4GHz: Max 26dBm
- Maximum power is limited by regulatory power

Supported radio technologies
- 802.11b: Direct-sequence spread-spectrum(DSSS)
- 802.11n: Orthogonal frequency-division multiplexing (OFDM)
- 802.11n with 5/10/20/40 MHz channel width
- 802.11b/g with 5/10/20 MHz channel width

Supported modulation types
- 802.11b: BPSK, QPSK, CCK
- 802.11n: BPSK, QPSK, 16-QAM, 64-QAM

Supported data rates (Mbps)
- 802.11b: 1, 2, 5.5, 11
- 802.11g: 6, 9, 12, 18, 36, 48, 54
- 802.11n: 6.5 to 300 (MCS0 to MCS15)

Power
Power source
- 24V proprietary compliant source
- Active Ethernet (Power over Ethernet, PoE)

Power consumption
- Maximum 7.2W

Antennas
Internal high gain directional antennas
- 13dBi 2.4GHz antenna

Directional type
- Point to point transmission in the long range distance

Interface
Two 10/100 BASE-T Ethernet Ports
- One port supports 24V proprietary PoE input
- One port supports the extension of internet signal

One reset button

Mechanical & environment
Dimensions / Weight
- 190mm (D) x 38mm (H)
- 460g
- Unit, without mounting kit

Operating
- Temperature: -20°C~60°C
- Humidity: 0%~90% typical

Storage
- Temperature: -30°C~80°C

Harsh Environment use
- IP55 rated

Operation mode
Access Point / Client Bridge / Client Router / WDS
- A variety of operation modes to serve multiple constituencies and applications.

Easy to management
Auto Channel selection
- Setting varies by Regulatory Domains

SSIDs
- BSSID support
- 4 SSIDs support

VLAN Tag
- Independent VLAN setting can be enable or disable
- Any packet that enters the device without a VLAN tag will have a VLAN tag inserted with a PVID (Ethernet Port VID)

VLAN Pass-through
- VLAN pass through over WDS bridge

SNMP &MIB
- v1/v2c/v3 support
- MIB I/II, Private MIB

Clients Traffic status:
- Reports the various main information timely which is required by administrator

QoS
- Complaint on IEEE 802.11e standard

RADIUS Accounting
- Help operators to offload 3G to the wi-fi seamlessly

Effective control and use
CLI Comments support
- Setting varies by Regulatory domains

Distance control (Ack Timeout)
Multicast supported
Wi-Fi scheduler
- Set the schedule for rebooting the device

Reinforcement security
WEP Encryption-64/128/152 bit
WPA/WPA2 Enterprise (WPA-EAP using TKIP or AES)
Hide SSID in beacons
MAC address filtering
- Filter up to 50 MACs

Wireless STA (Client) connection list
- Reports the various main information timely which is required by administrator