N300 5GHz Long range point-to-point CPE

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

EnStation5 is engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on the 5GHz band for accommodating heavy traffic services. The high-efficient 19dBi directional with polarization antenna provides an optimal, extended real outdoor throughput performance via point-to-point transmission.

Multiple operation modes

EnStation5 can operate into four different modes with Access Point, Client Bridge, Client Router and WDS mode. With powerful solutions and individual interfaces, EnStation5 can connect with multiple devices and extend wireless signals easily.

Effective management

EnStation5 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. Enstation5 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 a/n compliant

+ Up to 300Mbps (5GHz)

+ 19dBi directional high gain antenna

+ 24V Proprietary PoE support

+ Waterproof housing IP55 rated

+ AP/CB/CR/WDS modus support

+ 4 SSIDs support per radio + VLAN tagged supported

+ SNMP V1/V2c/V3, MIB I/II supported

+ Narrow bandwidth support

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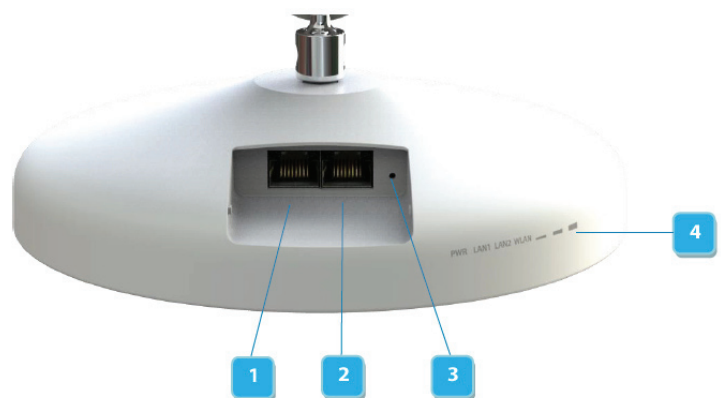
Wireless radio specification

5GHz 802.11 a/n
- Max 300Mbps

Transmit power (Maximum value)
- 5GHz: Max 26dBm
- Maximum power is limited by regulatory power

Supported radio technologies
- 802.11a/n: orthogonal frequency-division multiplexing (OFDM)
- 802.11n with 5/10/20/40MHz channel width
- 802.11a with 5/10/20 MHz channel width

Supported modulation types
- 802.11a/n: BPSK, QPSK, 16-QAM, 64-QAM

Supported data rates (Mbps)
- 802.11a: 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 7W

Antennas

Internal high gain directional antennas
- 19dBi 5GHz 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