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EnStation5

N300 5GHz Long Range Point to Point CPE

- 5 GHz
- 11a/n
- 300Mbps

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 Mode support
- 4 SSIDs support per radio + VLAN tagged supported
- Web Configuration and EZ controller software
- SNMP V1/ V2c/V3, MIB I/II supported
- WEP/WPA/WPA2 wireless encryption
- IPV4/IPV6 support
- Narrow Bandwidth Support

EnGenius Outdoor CPE design High Power, High Sensitivity and Strong Reliability Solutions under Harsh Environment.

EnStation5 engineered with the powerful independent RF interface that offers bandwidth up to 300Mbps on 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.

**Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.*
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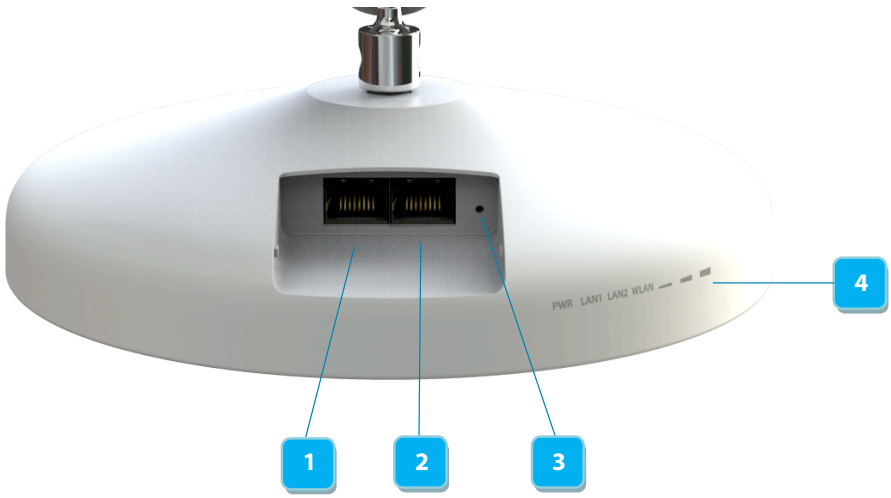
Multiple Operation Modes

EnStation5 can operate into four different modes with **Access Point**, **Client Bridge, Client Router** and **WDS Mode**. With powerful solution and individual interfaces, EnStation5 can connect with the multiple devices and extend the wireless signal easily.

Effective Management

EnStation5 integrated with Network Management Software "EZ controller" can offer variety uses in constructing scalable wireless network of all possible application and also allow centralized management via user-interface. EnGenius has developed the multiple functions for maximum security, monitoring and easily management to ensure the optimal users' experience. EnStation5 provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce the maximum security.

Indicator and Physical Interface



Physical Interface		Indicator	
1	10/100 LAN (PoE)	4	LED Signal
2	10/100 LAN		
3	Reset Button		

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SPECIFICATION
Wireless Radio Specification
5GHz 802.11a/n - Max 300Mbps
Transmit Power (Maximum Value) - 5GHz: Max 15dBm - Maximum power is limited by regulatory power
Supported radio technologies: - 802.11a/n: Orthogonal frequency-division multiplexing (OFDM) - 802.11n with 5/10/20/40 MHz 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 - 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

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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 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

Save Configuration as Default
- Saves the customized configuration as default value for different customer demands

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

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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

RF Specification (Aggregated Value)

Channel	Data Rate	Transmit Power (Aggregated, dBm)	Receive Sensitivity (Aggregated, dBm)
802.11a 5 GHz	6 Mbps	15.0	-95.0
	54 Mbps	14.0	-75.0
802.11n HT20 5GHz	MCS 0 / 8 / 16	15.0	-95.0
	MCS 7 / 15 / 23	13.0	-73.0
802.11n HT40 5GHz	MCS 0 / 8 / 16	15.0	-94.0
	MCS 7 / 15 / 23	13.0	-72.0

*Maximum performance of the hardware provided. Maximum transmit power is limited by local regulatory.
*The supported frequency band is restricted by local regulatory requirements.
*Transmit power is configured in 1.0dBm increments

Antenna Specifications (Internal Antenna)

	5GHz (Port1)	5GHz (Port2)
Peak Antenna Gain	19dBi	19dBi

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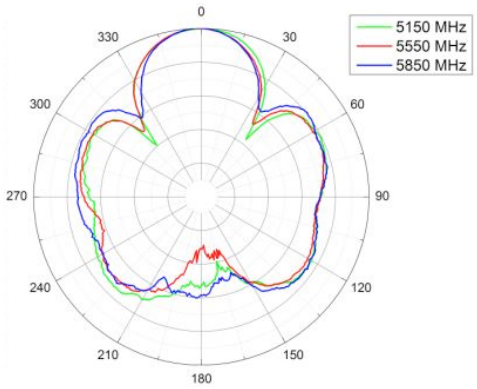
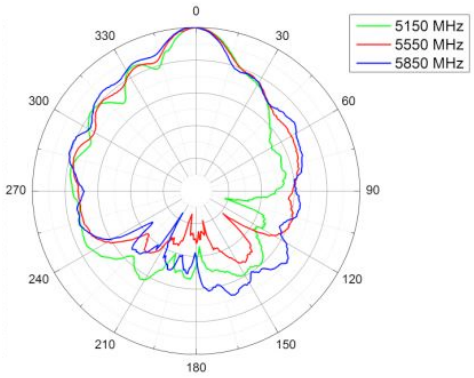
Polariztion	Linear	Linear
Azimuth Beam-Width	30	18
Elevation Beam-Width	18	30
VSWR	1:2.0	1:2.0
Dimension	175 x 175 x 5.5 (mm)	

Radiation Diagram

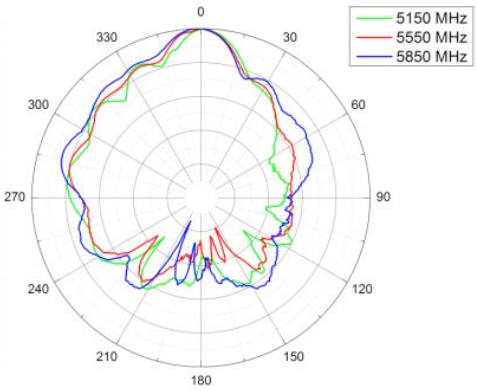
Port1: E-Plane



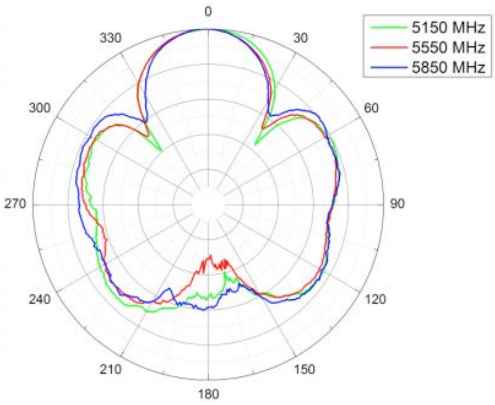
Port1: H-Plane



Port2: E-Plane



Port2: H-Plane



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Network Management System – EnGenius Zone Controller

In enhancing the real-time functionality of a network, applying the best network management software tool is necessary. Built-in Network Management System, EZ Controller (EnGenius Zone Controller), provides an intelligent tool for IT manager, installer, and network administrators to configure control, and manage all wireless devices within network from one central location. This application ensures the entire network will optimally operate without troubles, glitches and interruptions.

The growing demand of performance related results from service providers or someone involved in an enterprise, you need to provide a huge platform to make it successful. The robust design of EZ Controller can manage different devices simultaneously and precisely, as well as configure the advanced service for wireless clients.

Features	
• Easy-to-use User Interface	• Sequential firmware upgrades to deployed APs / Bridges
• Optimize network performance	• Import and archive floor plan maps for radio coverage plotting
• Eliminate downtime	• Labels assets by MAC and IP address or user-defined aliases
• Check real-time wireless coverage	• Export real-time AP statistics report
• Monitor and control each sheet	• Sequential firmware upgrades to deployed APs / Bridges
• Monitor traffic loads by AP, MAC or IP address	

An Intelligent solution for different business environment

Villa

Campus

Office

Plaza

Configure, control and manage EnGenius Enterprise Wireless Devices from one central location.

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