Key features

- Powerful 19dBi high gain antennas extends networks to 8km (Point-to-Point)

- 11ac wireless speeds to 867Mbps

- 2* Gigabit PoE-compliant ports

- 360-degree, 3-axis pivoting arm locks

The EnStationAC is a 5GHz high powered, long distance 11AC wireless outdoor AP/Client bridge offering dual-PoE Gigabit ports and a high-gain directional antenna that emits a narrow signal beam, limiting interference and ensuring stable connectivity, high-bandwidth and 867Mbps speeds over extremely long distances, extending the network up to 8km point-to-point.

Optimal bandwidth for fast file transfers & smooth HD video streaming

The EnStationAC's powerful independent RF interface offers high-bandwidth and speeds on its dedicated 5GHz frequency band. This allows EnStationAC to accommodate 4k Ultra High Definition (UHD) video and heavy multi-application traffic services, extending bandwidth over a wider channel range (20MHz, 40MHz and/or 80MHz) allowing network managers to fine tune channel usage based on the application.

Connect & power a second network device for greater deployment flexibility

Offering greater flexibility in deployment, the EnStationAC features two PoE 802.3at-compliant Gigabit ports. Connect and power a device, such as a remote IP surveillance camera or access point, for greater deployment flexibility. Deploy both devices where power outlets are scarce or un-available, such as under the eaves of roofs, high atop light poles or in other remote locations.

Tethering a series of 2MP or 5MP IP surveillance cameras to the EnStationAC's secondary port gives you "eyes on" places you might not otherwise see – no matter how far away, with significantly better results than traditional, non-tethered wireless surveillance setups.

Excellent performance in harsh environments

IP55-rated waterproof & dustproof casing ensures the access point and cable ports withstand harsh outdoor climates and indoor industrial environments where temperature is a factor.

Prioritizes applications & maintains quality of experience (IEEE802.11e)

Intelligent QoS (Quality of Service) prioritizes bandwidth intensive applications like HD video or bandwidth sensitive applications like VoIP telephone calls to maintain peak service.

Simplified monitoring & configuration

With EnGenius' free EZ ControllerTM software, access point units deployed on rooftops or other difficult to access locations are easily reconfigured or upgraded remotely.

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Disclaimer: Information may be subject to changes without prior notification

Technical specifications

Standard
IEEE 802.11a/n/ac

Internal antennas
1* 19dBi 5GHz high gain directional

Physical interface
1* 10/100/1000Mbps port supports
802.3at/af proprietary 48V~ 54V PoE input
1* 10/100/1000Mbps port supports 802.3af/
PSE output

LED indicators
1* Power
1* LAN 1
1* LAN 2
1* WLAN

Reset button

Power
Power source (PoE adapter):
802.3at/~54V proprietary compliant source
Active Ethernet (Power-over-Ethernet, PoE)

Power consumption
23.4W

Wireless & radio specifications

Operating frequency
5GHz

Operation modes
Access point
Client bridge
WDS modes

Transmit power
Up to 26dBm
Up to 400mW
Max power is limited by regulatory power

Radio I
11a/n/ac: 5.180-5.825GHz

Radio chains/spatial streams
2x2:2 MIMO

Supported data rates (Mbps)
5GHz: Max 867Mbps
802.11a: 6, 9, 12, 18, 36, 48, 54
802.11n: 6.5 to 300 (MCS0 to MCS15)
802.11ac: 6.5 to 867 (MCS0 to MCS9)

Supported radio technologies
802.11a/n/ac: Orthological Frequency-Division
Multiplexing (OFDM)

Channelization
802.11ac with 20/40/80MHz channel width
802.11n with 20/40MHz channel width
802.11a with 20MHz channel width

Supported modulation
802.11a/n/ac: BPSK, QPSK, 16-QAM,
64-QAM, OFDM & 256-QAM

5GHz (Port 1)
Average antenna gain: 19dBi
Polarization: Linear
Azimuth beam Width: 30°
Elevation beam-Width: 18°
VSWR: 1:2.0

5GHz (Port 2)
Average antenna gain: 19dBi
Polarization: Linear
Azimuth beam Width: 18°
Elevation beam-Width: 30°
VSWR: 1:2.0

Management

Auto channel selection
Multiple SSIDs: 8 SSIDS
BSSID support
VLAN tagging - Independent VLAN settings
VLAN pass-through - Over WDS bridge mode
VLAN per SSID - isolate each SSID with individual VLAN
Wireless STA (Client) connection list
Email alert
Client traffic status

Configuration

Web interface (HTTPS)
SSH
SNMP V1/v2c/v3 support
MIB I/II, private MIB
CLI support
Save configurations as default

Control features

RADIUS accounting - Helps operators to offload 3G to Wi-Fi seamlessly
CLI comments support
Distance control (Ack timeout)
Multicast supported
RSSI threshold
Wi-Fi scheduler

Security

WEP encryption: 64/128/152 bit
WPA/WPA2 personal
(WPA-EAP using TKIP AES)
WPA/WPA2 enterprise
(WPA-EAP using TKIP AES)
Hide SSID in beacons
MAC address filtering (Up to 32 MAC addresses per SSID)
802.1x authenticator

QoS

Compliant with IEEE 802.11e standard

Environmental & physical

Temperature range

Operating: -4 °F to 140 °F (-20 °C to 60 °C)
Storage: -22 °F to 176 °F (-30 °C to 80 °C)

Humidity (non-condensing)

Operating: 90% or less
Storage: 90% or less

Waterproof

IP55-rated enclosure

Dimensions & weights

EnStationAC device (Without mounting kit)

Weight: 1.01 lbs. (460 g)
Depth: 7.48" (190 mm)
Height: 1.50" (38 mm)

Packaging

Weight: 2.29lb (1.04 kg)
Width: 9.72" (247 mm)
Length: 12.63" (321 mm)
Height: 3.46" (88 mm)

Master carton

Weight: 25.66 lbs. (11.674 kg)
Width: 18.22" (463 mm)
Length: 20.19" (513 mm)
Height: 14.21" (361 mm)
No. of boxes per Master carton: 10 Units

Package contents

• EnStationAC outdoor CPE
• PoE adapter (EPA5006GP)
• Pole/Wall mounting kit
• Mounting screw set
• Quick installation guide

Certifications

FCC, CE, RCM