



EnTurbo™ Series Indoor Next-Gen 802.11ac Wave 2 Compact Access Point

Turbocharged Wi-Fi

The EnGenius EAP1250 Access Point boosts wireless performance for small to mid-size organizations. Powerful onboard quad-core processors combine with new 11ac technology to maximize speed, performance, and greater user device capacity and connection reliability. The sleek, stylish EAP1250 delivers next generation, business-class Wi-Fi at exceptional pricing.

Big Performance, Small Footprint

Don't let the compact size of EAP1250 fool you – it is powerful! Reaching speeds to 867 Mbps on 5 GHz and to 400 Mbps on the 2.4 GHz frequency band, the EAP1250's mighty quad-core processor boosts wireless performance and efficiency with up to 30 percent faster throughput compared to 11ac Wave 1 3x3 access points.

Optimized Wi-Fi for Newest Client Devices

EAP1250 optimally supports the latest and greatest multi-capability devices so users can take full advantage of HD video streaming and other speed/bandwidth-hungry features. Leave barely adequate Wi-Fi performance in the past; upgrade and maximize client device capabilities!

Next Generation Wi-Fi

The feature-rich EAP1250 AP leverages the advanced 11ac Wave 2 Wi-Fi technology that maximizes wireless speed and performance while eliminating network lag. EAP1250 offers greater user capacities via dedicated multi-user, MU-MIMO connections and optimal signal reliability through Beamforming Antenna technology.

Features & Benefits

- 11ac Wave 2 Wireless Speeds to 867 Mbps (5 GHz); to 400 Mbps (2.4 GHz)
- Quad-Core CPU, 4x ARM Cortex A7 Processor, 717 MHz
- Up to 30% Faster Throughput Over 11ac Wave 1 3x3 APs
- Compact, Sleek, Stylish Design
- MU-MIMO Improves Performance & Increases User Device Capacities
- Beamforming Optimizes Antenna Signal, Reception & Reliability for Clients
- GigE 802.3af PoE-Compliant Port for Easy Placement Where Power Outlets are Scarce
- Integrated 5 dBi High-Gain, 360° Module Type Antennas
- Includes a Suite of Advanced AP Management & Security Features
- Flexible Operation Modes: AP & WDS
- Simple, Intuitive Web-Based AP Monitoring & Management Software
- Operate as a Stand-Alone or Centrally Manage via EnGenius Managed Switches or ezMaster™ Software



Next Generation Wireless Technology

Replace your old wireless with new, advanced 11ac Wave 2 technology to support today's content-rich mobile world.



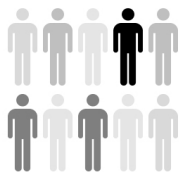
Maximized Speed & Performance

The feature-rich AP leverages the advanced 11ac Wave 2 Wi-Fi technology that maximizes wireless speed and performance while eliminating network lag.



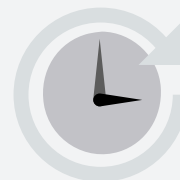
Improved Signal Reliability

Beamforming Antenna technology directs and adjusts signal beams as staff or customers move throughout the area, ensuring optimal signal and reception reliability.



Increased User Capacities

Multi-User (MU) MIMO sends dedicated wireless streams to multiple user devices at the same time, improving your network's efficiency.



Future-Proof Network

Upgrade from slower, older technology while supporting the future needs of IoT and mobile technology. Ensure your network against further upgrades for the next five years.

Gigabit Ethernet PoE Port Supports Flexible Power Options

Connect and power the EAP1250 AP via its Gigabit 802.3af Power-over-Ethernet port for discrete placement in locations where power outlets are limited or unavailable such as ceilings, hallways, rafters and attics. Place the AP up to 328 feet from a power source such as an EnGenius Managed Gigabit PoE+ Switch.

Flexible Operation & Configuration Options

Access Point and WDS mode configurations broaden the AP's adaptability to your network needs. With three operation modes, these flexible devices offer versatility in deployment and functionality.

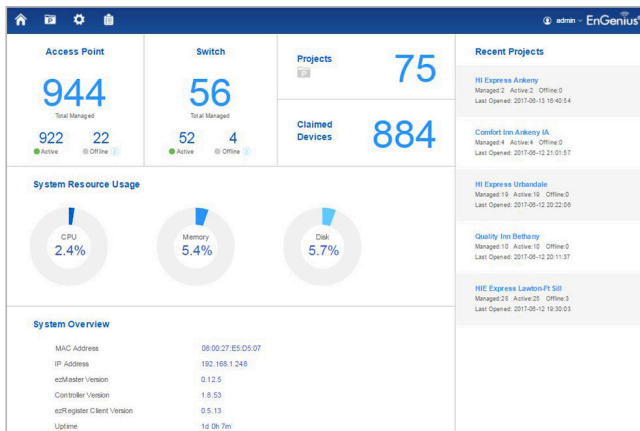
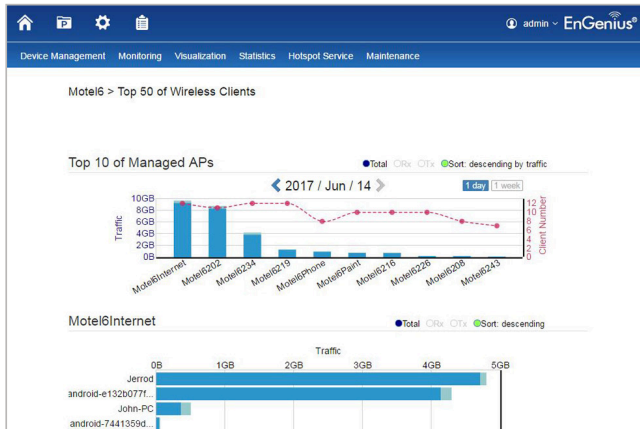
Reliable Connectivity & Network Protection

Configure multiple APs to ensure seamless, reliable connectivity for users as they move about the network with standards-based roaming. Efficiently steer dual-band clients to the less congested 5 GHz band for improved traffic management. Quickly detect and avoid network threats through a suite of advanced security features including Guest Networks and email alerts.



Network Management

The EAP1250 can operate as a stand-alone AP or as part of a scalable EnGenius Wireless Network Management Solution, centrally managed by ezMaster, and expandable as your network needs grow.



System Requirements

Recommended environment for managing up to 500 APs

CPU: Intel® Core™ i7 quad-core or above
 RAM: 4 GB minimum
 HDD: 500 GB (actual requirement dependent on log size)
 OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

Recommended environment for managing up to 1,000+ APs

CPU: Intel® Xeon® Processor E3 or above
 RAM: 4 GB minimum
 HDD: 500 GB (actual requirement dependent on log size)
 OS: Microsoft® Windows® 7 or later + VMware® Player 7.0 or compatible virtualization software

Browser Requirements

Internet Explorer 10 or better
 Firefox 34.0 or better
 Chrome 31.0 or better
 Safari 8.0 or better

Network Topology Requirements

At sites where APs are deployed: A DHCP-enabled network for APs to obtain an IP address

ezMaster™ Network Management Software

EnGenius ezMaster Software's simple, intuitive Web-based interface allows flexible access point monitoring locally or remotely. Quickly and easily set up, manage, monitor, and troubleshoot multiple APs at the same time. See real-time network performance and monitor AP traffic through ezMaster's at-a-glance dashboard.

ezMaster provides business-class features, unlimited scalability and centralized management of hundreds of EnGenius access points and switches locally, remotely or via a cloud-based service with no licensing or subscription fees.

ezMaster Software Features

- **Network Management**
 - Configure, Manage & Monitor
 - Cross-Network AP Management
 - AP Group Configuration
- **Access Point Configuration & Management**
 - Band Steering
 - Client Isolation
 - Client Limiting
 - Fast Roaming
 - L2 Isolation
 - LED On/Off Control
 - Multiple SSID
 - RSSI Threshold
 - Secure Guest Network
 - Traffic Shaping
 - VLAN Isolation
 - VLAN Tag
- **Comprehensive Monitoring**
 - Device Status Monitoring
 - Floor Plan View
 - Map View
 - System Status Monitoring
 - Visual Topology View
 - Wireless Client Monitoring
 - Wireless Coverage View
 - Wireless Traffic & Usage Statistics
- **Management & Maintenance**
 - Bulk Firmware Upgrade
 - Email Alert
 - Kick/Ban Clients
 - One-Click Update
 - Remote Logging
 - Seamless Migration
 - Syslog

Technical Specifications

Standards

IEEE 802.11b/g/n on 2.4 GHz

IEEE 802.11a/n/ac on 5 GHz

Processor

Qualcomm® 717 MHz Quad-Core CPU

4x ARM Cortex A7

Antenna

1 x 2.4 GHz: 5 dBi

1 x 5 GHz: 5 dBi

Integrated Omni-Directional Antenna

Physical Interface

1 x 10/100/1000 BASE-T, RJ-45 Gigabit Ethernet Port

1x DC Jack

1 x Reset Button

LED Indicators

Power On (Green)

Ready to Config (Yellow)

Internet Connection (Blue)

Internet Disconnection (Red)

Power Source

Power-over-Ethernet: 802.3af Input

IEEE 802.11e Compliant Source

12VDC /1A Power Adapter

Maximum Power Consumption

9W

Surge Protection

0.5KV

Wireless & Radio Specifications

Operating Frequency

Dual-Radio Concurrent 2.4 GHz & 5 GHz

Operation Modes

Access Point Mode

WDS: WDS AP, WDS Bridge

Frequency Radio

2.4 GHz: 2400 MHz ~ 2472 MHz

5 GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz

Transmit Power

Up to 23 dBm on 2.4 GHz

Up to 23 dBm on 5 GHz

Tx Beamforming (TxBF)

Radio Chains/Spatial Stream

2x2:2

SU-MIMO

2.4 GHz - Two (2) Spatial Stream SU-MIMO up to 400 Mbps to individual 2x2 VHT40 client devices (300 Mbps for HT40 802.11n client devices)

5 GHz - Two (2) Spatial Stream SU-MIMO up to 867 Mbps to individual 2x2 VHT40 client devices

MU-MIMO

Two (2) Spatial Stream MU-MIMO up to 867 Mbps to two (2) MU-MIMO capable wireless devices simultaneously

Supported Data Rates (Mbps):

2.4 GHz: Max 400

5 GHz: Max 867

802.11b: 1, 2, 5.5, 11

802.11a/g: 6, 9, 12, 18, 36, 48, 54

802.11n: 6.5 to 400 Mbps (MCS0 to MCS15)

802.11ac: 6.5 to 867 Mbps (MCS0 to MCS9, NSS = 1 to 2)

Supported Radio Technologies

802.11b: Direct-Sequence Spread Spectrum (DSSS)

802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)

802.11n/ac: 2x2 MIMO with 2 Streams

Channelization

802.11n Supports High Throughput (HT)—HT 20/40 MHz

802.11n Supports Very High Throughput (VHT) Under the 2.4 GHz Radio—VHT 40 MHz (256-QAM)

802.11n/ac Packet Aggregation: AMPDU, ASPDU

802.11ac Supports Very High Throughput (VHT)—VHT 20/40/80 MHz

Supported Modulation

802.11b: BPSK, QPSK, CCK

802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM

802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Management

Multiple BSSID

Supports 16 SSIDs (8 SSIDs per Band)

VLAN Tagging

Supports 802.1q SSID-to-VLAN Tagging

Cross-Band VLAN Pass-Through

Management VLAN

Spanning Tree

Supports 802.1d Spanning Tree Protocol

QoS (Quality of Service)

Complaint With IEEE 802.11e Standard

WMM

SNMP

v1, v2c, v3

MIB

I/II, Private MIB

Management Features

Deployment Options

Stand-Alone (Individually Managed)

Managed Mode (with Neutron Series Switch/ezMaster)

Stand-Alone Management Features

Auto Channel Selection

Auto Transmit Power

Wireless STA (Client) Connected List

Guest Network

Fast Roaming (802.11k & 802.11r)

Pre-Authentication (802.11i, 802.11x)

PMK Caching (802.11i)

RSSI Threshold

Band Steering

Traffic Shaping

VLANs for Access Point – Multiple SSIDs

Backup/Restore Settings

Auto Reboot

E-Mail Alert

Site Survey

Save Configuration as Default

Wireless Management Features (With ezMaster & Neutron Switch)

AP Auto Discovery & Provisioning

AP Auto IP Assignment

AP Group Management

Auto AP Rebooting

AP Device Name Editing

AP Radio Settings

Band Steering

Traffic Shaping

Fast Roaming (802.11k & 802.11r)

Pre-Authentication (802.11i, 802.11x)

PMK Caching (802.11i)

RSSI Threshold

AP Client Limiting

Client Fingerprinting

AP VLAN Management

VLANs for AP - Multiple SSIDs

Secured Guest Network

Access Point Status Monitoring

Wireless Client Monitoring

Email Alert

Wireless Traffic & Usage Statistics

Real-Time Throughput Monitoring

Visual Topology View

Floor Plan View

Map View

Technical Specifications continued

Wireless Management Features (With ezMaster & Neutron Switch) continued

Wireless Coverage Display
Secure Control Messaging (SSL Certificate)
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
One-Click Update
Intelligent Diagnostics
Kick/Ban Clients
Wi-Fi Scheduler

Control Features

Managed Mode (w/Neutron Switch/ezMaster)
Distance Control (ACK Timeout)
Multicast Supported
Wi-Fi Scheduler
Client Traffic Status
RADIUS Accounting (802.1x)
Power Save Mode (U-APSD Support)
CLI Support
HTTPS

Wireless Security

WEP Encryption 64/128/152 bit
WPA/WPA2 Enterprise (WPA-EAP Using TKIP or AES)
Hide SSID in Beacons
MAC Address Filtering, Up to 32 MACs per SSID
Wireless STA (Client) Connected List
SSH Tunnel
Client Isolation

Environment & Physical

Temperature Range

Operating: 32°F~104°F (0 °C~40 °C)
Storage: -22 °F~176 °F (-30 °C~80 °C)

Humidity (non-condensing)

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

Dimensions & Weights

EAP1250 Device

Weight: 0.41 lbs. (0.18 kg)
Diameter: 5.11" (130 mm)
Height: 1.57" (40 mm)

Package Contents

1 - EAP1250 Dual-Band AC1300 Indoor Access Point
1 - 12V/1A Power Adapter
1 - T-Rail Mounting Kits
1 - Ceiling and Wall Mount Screw Kits
1 - Mounting Brackets
1 - RJ-45 Ethernet Cables
1 - Quick Installation Guide

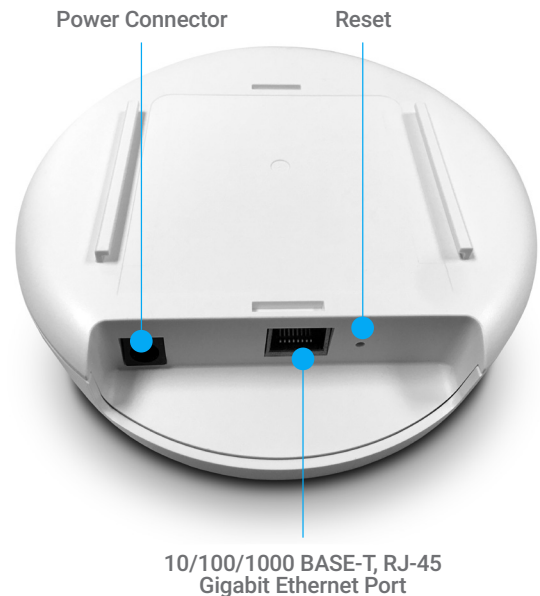
Certifications

FCC, CE

Warranty

1-Year Standard

EAP1250 Indoor Access Point



Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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Version 1.00 12/6/2017

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