



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.



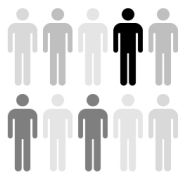
Maximized Speed & Performance

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



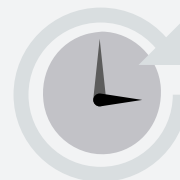
Improved Signal Reliability

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.

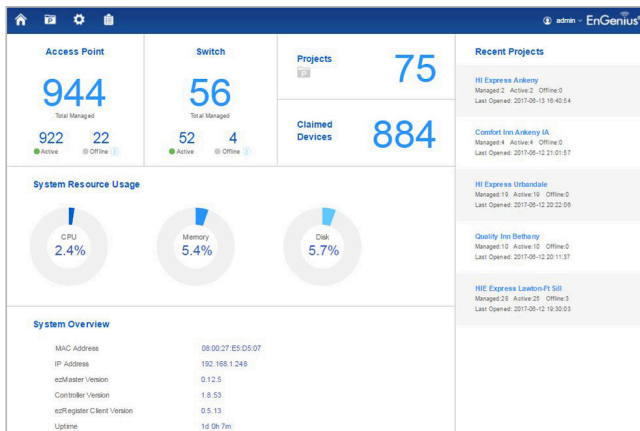
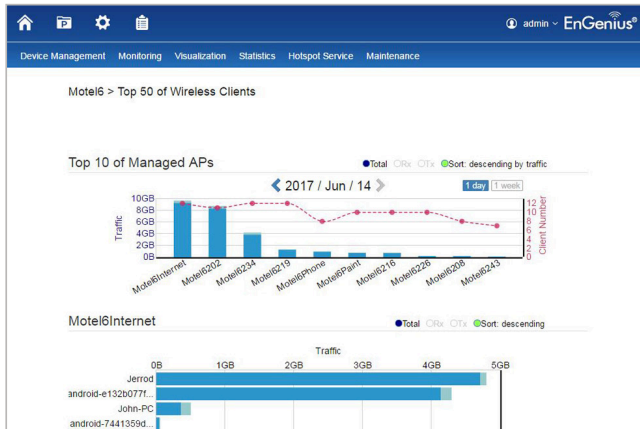
Reliable Connectivity & Network Protection

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

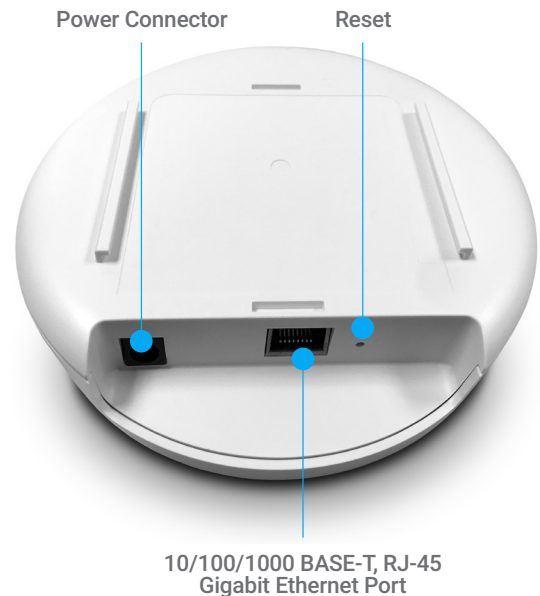
Certifications

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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