



Product name:

ECW260

Introduction to ECW260:



The brand new weatherproof EnGenius Cloud ECW260 utilizes the latest 11ax (Wi-Fi 6) technology to support the growing bandwidth demands of densely congested outdoor environments like stadiums, airports, smart cities and parks. Being armored by the ruggedized IP67-rated dust and water-resistant enclosure allows the ECW260AP to be fully capable of withstanding harsh weather environments, including prolonged exposure to sunlight, extreme cold, frost, snow, rainfall, and humidity. It features four external detachable 5 dBi high-gain, 360° module RP-SMA type antennas, which optimize the Wi-Fi signal, reception, and bandwidth to connected devices through beamforming.

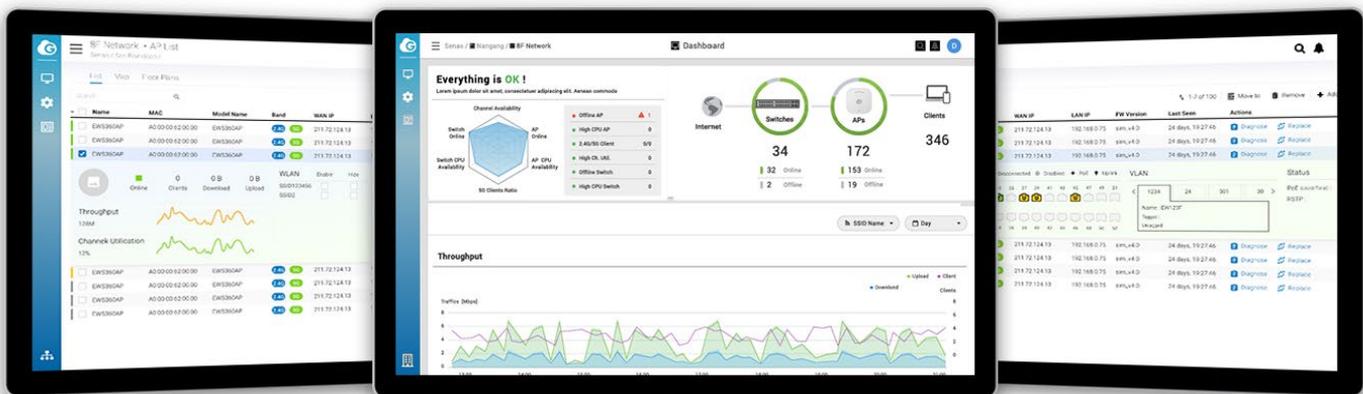
Short Description:

The key benefits for the EnGenius Cloud managed outdoor ECW260 Access Point (AP) include easy cloud management and security. The EnGenius Cloud solution can manage an unlimited number of APs from anywhere. Devices can be quickly scanned, registered, pre- & auto-configured, and remotely monitored and troubleshot. EnGenius Cloud's dashboard quickly checks network health, provides managed device status, and displays overall top network performance and insights including client applications & operating systems.

Each ECW260 AP uses a secure SSL tunnel to communicate with EnGenius Cloud using non-sequential serial numbers and MAC address verification to ensure only authorized cloud devices are connected. It also uses the latest, most advanced wireless security WPA3 and WPA3 Enterprise to strengthen encryption. EnGenius Cloud offers MAC filter, event-based alerts and push notifications to divert and prevent network hacks and other security threats.

Smart Management with EnGenius Cloud:

EnGenius Cloud organizes your network workload to make your workflow more efficient, pinpoints network issues quickly even when you are on-the-go and increases uptime for greater customer satisfaction.



EnGenius Cloud is built on top of the most advanced cloud computing technology. Scalable and AI-ready, the robust and dynamic cloud computing infrastructure helps you work intelligently on your network with important analytics and visualization tools. Artificial intelligence (AI) enables EnGenius Cloud to predict issues before they occur and provide accurate recommendations to proactively improve performance.

- Stability and scalability by the most a serverless Cloud infrastructure
- Secured Cloud deployment for user data
- Plug & Play without complex configuration

- Hierarchy view and multi-user privileges
- Real-time analytics for wired & wireless devices
- Oversee your network in a single glance
- Expert advice from EnGenius' AI-driven advisory board
- Network and monitoring on the go

Key Benefits for Your Business:

Easy Deployment

With quick registration and group device configuration available on your network, EnGenius Cloud makes it easy to deploy multiple sites without the need for costly site visits or onsite support.

Smart Networking

EnGenius Cloud makes it easy to manage and monitor multiple sites. Hierarchy view provides a big-picture overview of your network, and real-time and historical device data allows for granular control over your hardware. Remotely manage and update firmware for distributed devices with scheduled maintenance.

Visualized Insight

EnGenius Cloud empowers you to

Product Highlights:

EnGenius Cloud Managed ECW260 Outdoor Wi-Fi 6, 2x2, IP67, MU-MIMO Dual-Band Access Point reaches speeds of 1,200 Mbps on 5 GHz and 574 Mbps on 2.4 GHz band. This top-of-the-line cloud-managed AP features the latest in rugged weatherproofing and Wi-Fi 6 technology with guaranteed top-notch performance and reliability in the harshest environments.

The main benefits of the ECW260 AP include:

- Superior Connectivity: With up to 2 streams across both 5 GHz and 2.4 GHz bands, the ECW260 encompass downlink and uplink MU-MIMO and OFDMA to simultaneously manage and transmit data between AP and client devices.
- Powerful Computing: Dynamic data processing and management to boost data throughput up to 25% with 1024QAM and expand connectivity capabilities.
- Advanced Data Management: Cut through densely congested outdoor environments with better data management and extend wireless coverage through longer OFDM signals and reduce channel interference through BSS coloring, offering less latency and improved transmit signals.
- Security: Enabled with WPA3 security, the APs supports higher encryption for sensitive data transfers for hundreds of simultaneously connected devices.
- Powerful coverage: A 2.5 GigE PoE-compatible port for easy placement where power outlets are scarce. It also features four detachable 360° antennas that boost signal strength and allows users to swap them out for bigger, better antennas. When meshing, the APs use high power radios to extend the distance between itself and other access points.
- Unmatched Affordability: The APs like all EnGenius Cloud and EnGenius EnSky APs and switches come with no licensing or subscription fees and have an outstanding price performance ratio

Main Specifications:

Model	ECW260
Standard	11ax (Wi-Fi 6) 2x2 Dual Band 575 + 1200 Mbps (AX1800)
IP Rating	IP67
Antenna Gain	2.4GHz: Omni 5dBi*2 / 5GHz: Omni 5dBi*2
Range	1km with supplied Omni Antenna
Output Power	2.4GHz: Max 23 dBm ⁽¹⁾ / 5GHz: Max 25 dBm ⁽¹⁾

	(30dBm EIRP with included Antenna)
Interface	1 x 2.5Gbps Ethernet (802.3at PoE)
Typical Application	AP in AP and/or Mesh AP mode
Accessory	PoE Adapter EPA5006GR (optional)

⁽¹⁾ Subject to restriction on regulatory domain

 	Qualcomm® Networking Pro 400 platform (IPQ6010)
	Quad-Core CPU
	1GB RAM
	Up to 512 concurrent connected users per radio (serves more than 1000 users)

Product Image:

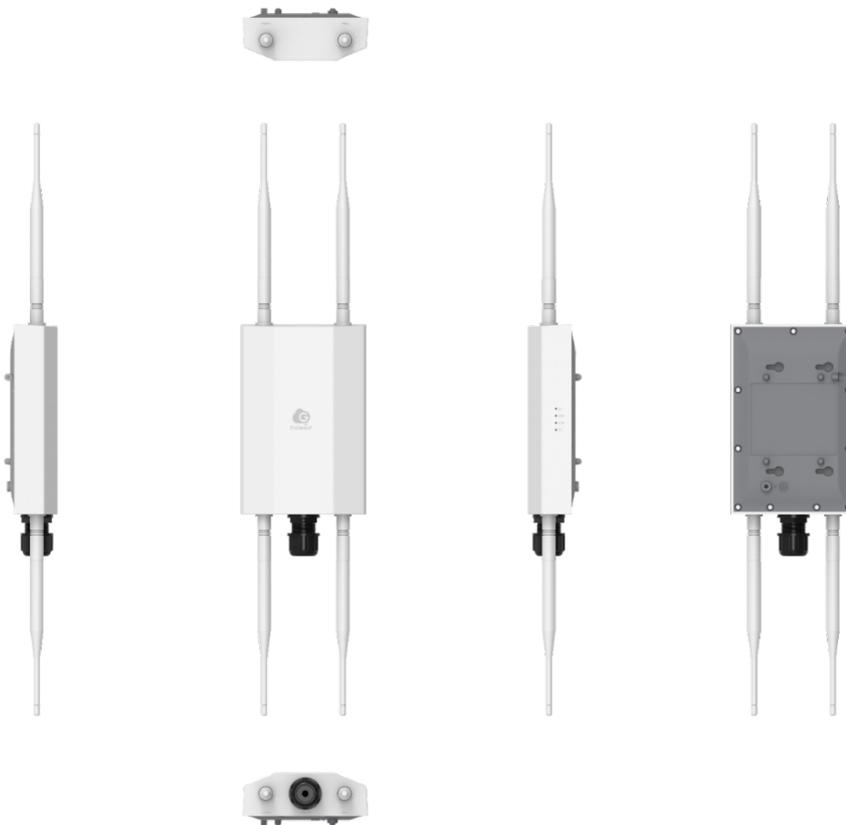


Diagram 1: Wi-Fi for live 4K sport event broadcast in high density stadium

Here is an example of a deployment graphically plotted out. We see if you high bandwidth required data processors like 4K streaming and live broadcasting. Also, a lot of people together very dense to each other. With the 11ax (Wi-Fi 6) technology this still would be a possible solution to roll out.

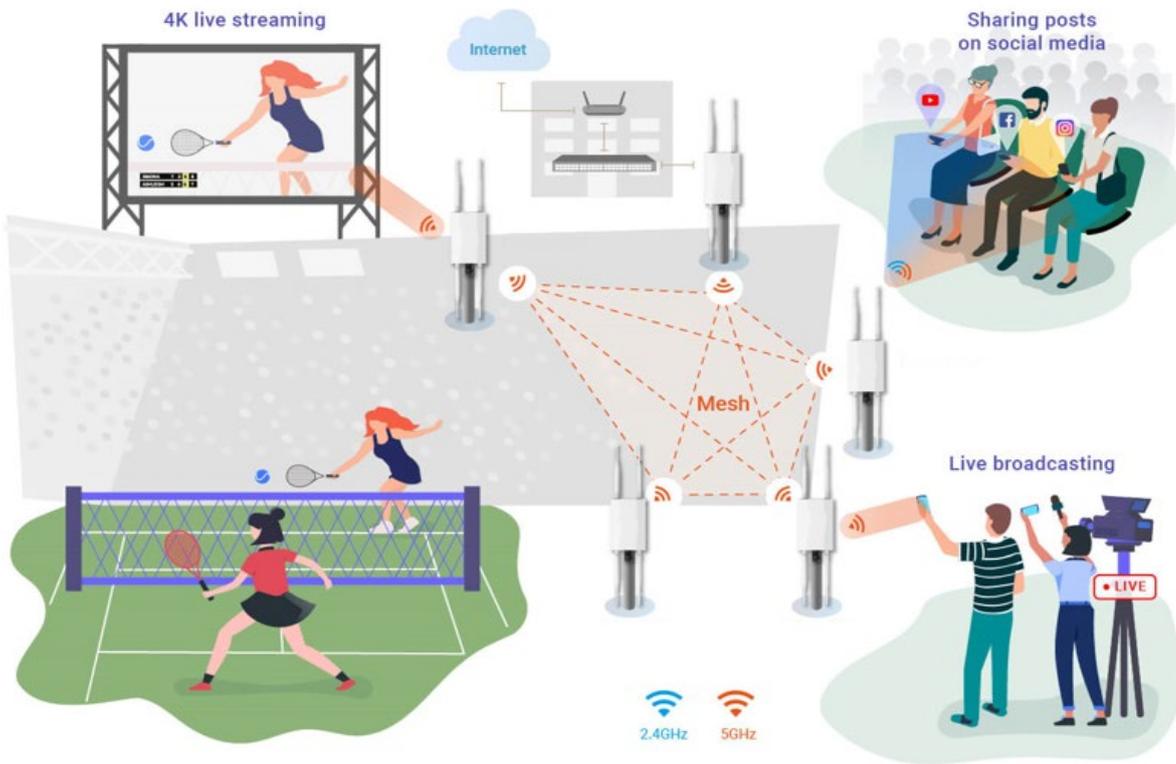


Diagram 2: Wi-Fi hotspot for enjoyable and seamless entertainment in camping site

The ECW260 is a nice solution on a camping site. You can have multiple access points in mesh mode and still give Wi-Fi access to various clients in different places. The compact 2x2 footprints of the ECW260 and the mounting options make this access point ideal to be deployed in these kinds of scenarios. Also, the equipped PoE adapter is an essential element to be used in these kinds of setups.

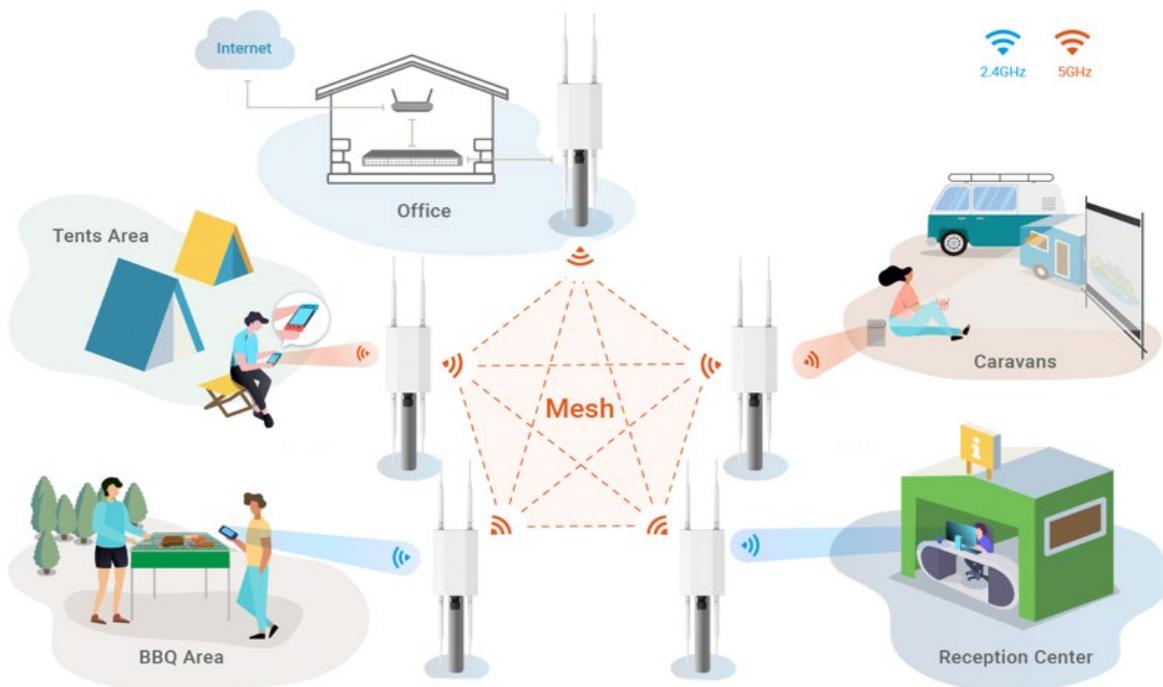
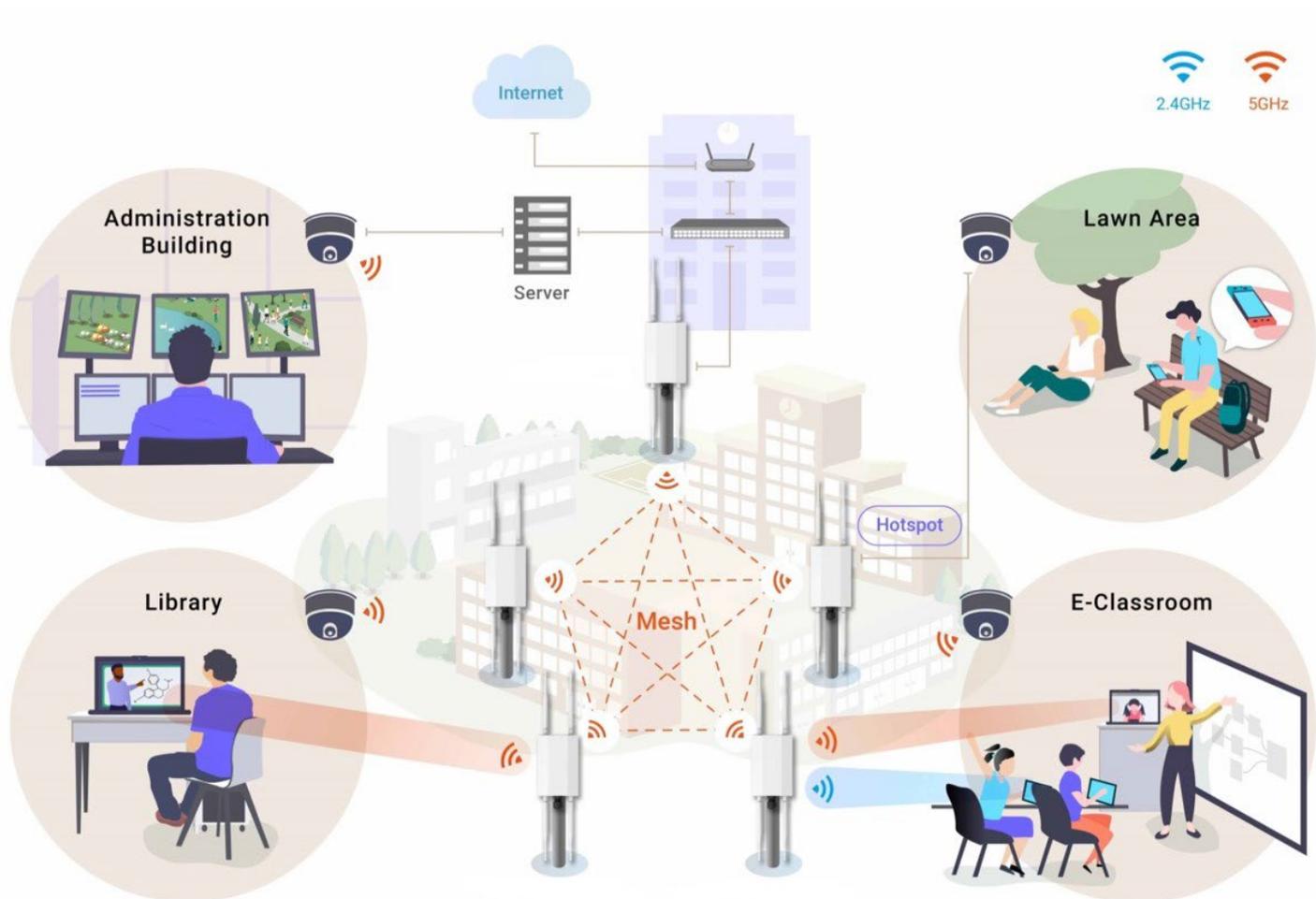


Diagram 3: Wi-Fi hotspot and surveillance application in smart campus

Also, in a Campus Situation or Surveillance situation, the ECW260 could be a very good solution.



Why should you buy it?

The EnGenius ECW260 is one of the first 11ax outdoor 2x2 cloud managed access points that is available in the market. If competitors already have 11ax access points available, then that would be 4x4 or 8x8 heavy use access points exclusively to be used in the higher price segment. Now actually EnGenius has a 2x2 outdoor access point for the mainstream segment of the market. You can deploy 11ax outdoor already now and be future proof for the next upcoming years.

The EnGenius ECW260 is cloud managed and uses 11ax (Wi-Fi 6 technology), the most current Wi-Fi technology, backed by the state-of-art cloud management platform, with enterprise level features which are intuitive to use.

Easy to Manage

- **Managed the EnGenius Cloud**
- Multi-SSID
- VLAN Pass-through
- VLAN Tag Management
- VLAN Per SSID
- Traffic Shaping Per SSID/User
- E-Mail Alerts
- Wi-Fi Scheduler
- Client Statistics
- RADIUS Accounting

Optimal Performance

- **Quality of Service (802.11e)**
- Power Save Mode (UAPSD)
- Pre-Authentication
- PMK Caching
- **Fast Roaming (802.11r)**
- Multicast to Unicast
- 1024-QAM both on 2.4GHz / 5GHz

Comprehensive Protection

- **WPA3/WPA2 Personal /Enterprise**
- 802.1x Authenticator
- Hide SSID in beacons
- STA (Client) connected list
- Https Support
- SSH Support

Advanced RF Management

- **OFDMA-UL/DL**
- **BSS Colouring**
- ACK timeout
- Site Survey
- Auto Tx Power
- Auto Channel
- Fast Roaming (802.11k/v)
- Band Steering
- RSSI Threshold
- **MU-MIMO-UL/DL**
- **Tx Beamforming-UL/DL**

