

EW-7889WAX

Quick Installation Guide

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Product Specification

Main SPEC

Wireless Technology	• IEEE 802.11b/g/n/ax 2.4GHz 1024QAM with 1200Mbps • IEEE 802.11a/n/ac/ax 5GHz 1024QAM with 2400Mbps • Support MU-MIMO/OFDMA at 2.4GHz and 5GHz
External Interface	• 1x 2.5GE LAN (802.3at POE) • 1 x reset button • 1 x MicroUSB Console Port(UART) • 1 x USB
LED	• 1x tri-color LED
PCB Dimension	• 210* 188* 1.6mm/6L
Enclosure Dimension	• 225*225* 43mm
Power supply	POE 802.3at PD
Operating Temperature	0°C ~ +40°C / 10 ~ 90%RH

Key parts

CPU	Qualcomm IPQ8072A
Wi-Fi 2.4GHz RF	Qualcomm QCN5024
Wi-Fi 5GHz RF	Qualcomm QCN5054
SPI NOR Flash	● 8MB
NAND Flash	● 512MB
RAM	DDR4 1GB ● 512MB DDR4*2
Wi-Fi RF PA/FEM	2.4GHz FEM: QPF4288A (Board data use QPF4228 for lower power) 5GHz FEM: QPF4588A (Board data use QPF4528 for lower power)
antenna	4x Dual band
PD IC	MP8009
Ethernet	QCA8081
Console	Prolific PL2303G4ZJG8P2
TPM	Infineon SLB 9670VQ2.0
Internal connector	M.2 Connector

Housing design & dimension:



LED definition

Description (For Alpha/Beta/Charlie/Delta)	LED
AP is off or reboot started	Off
Normal Operation	Solid Green
AP is booting & connecting to wireless controller	Flashing Green
Error, no wireless controller found. AP will reboot (if not yet claimed by a controller). Check network connection if error persists. If reset button pressed: AP preparing configuration reset	Solid Red
Configuration reset in progress *	Flashing Slow Red
Firmware update in progress* Note: Do not disconnect from power	Flashing Fast Red
AP has no connection to the wireless controller	Solid Amber
AP is not claimed by wireless controller	Flashing Amber

Safety Instructions

You can operate the access point (AP) safely if you follow the information in these Safety Instructions and on the appliance.

Do not reach into the appliance. There are dangerous circuits inside the appliance that can cause death if you touch them.

Damaged appliances must be returned. It is forbidden to open the hardware appliance or to change its components. Failure to comply with this rule results in the loss of warranty cover from EDIMAX.

Connect the device to a power socket with a fully functional earth conductor. Defective earth conductor connections do not comply with the requirements for safety and electromagnetic compatibility. Check the power socket before connecting the hardware appliance.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Before you switch on the appliance make sure that your mains voltage complies with the supply voltage of the appliance. The connection data are shown on the name plate.

To disconnect the appliance completely take the power cable from the power socket. Make sure that the power plug is freely accessible.

Make sure that no one can trip over the power cable and that it cannot be damaged by objects.

Only connect system peripherals complying with the requirements for protective extra-low voltage according to EN/IEC 62368-1.

Only use parts and accessories validated by EDIMAX. Using non-approved parts and accessories may affect the functioning of the appliance and your safety.

The appliance produces heat. Ensure that there is sufficient air circulation to remove the heat.

Avoid a permanent high level of air humidity and formation of condensation. Protect the appliance from humidity and chemicals. Safe use of the appliance is no longer possible if: the chassis is damaged water penetrated the appliance objects entered the appliance via air opening smoke comes out of the appliance the power cable is damaged it does not work properly

Immediately turn off the appliance in the event of one of the above problems, remove the power cable from the power socket and contact your customer service as soon as possible.

We expressly exclude any product liability and warranty claims if the appliance is not operated according to the instructions in these notes and to the notes attached to the appliance itself.

PoE-Injector Safety Information

Caution: The PoE injector is to be connected only to PoE networks without routing to the outside plant.

ÌAC Power Cord: The power cord must have regulatory agency approval for the specific country in which it is used (for example, UL, CSA, VDE, GS, etc.).

The power cord must be a three-conductor type (two current carrying conductors; one ground conductor terminated on one end by an IEC 60320 appliance coupler (for connection to the PoE-Injector), and on the other end by a plug containing a ground (earthing) contact).

The power cord must be rated for a minimum of 250 VAC RMS operation, with a minimum rated current capacity of 5 A (or a minimum wire gauge of 18 AWG (0.75 mm²)).

A PoE-Injector installed in Australia requires power cords with a minimum wire gauge of 16 AWG (1.0 mm²).

The PoE-Injector "Data In" and "Data & Power Out" ports are shielded RJ45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) telephone sockets. Connect RJ45 data connectors only to those sockets.

The AC wall socket-outlet must be near the PoE-Injector and easily accessible. You can remove AC power from the PoE-Injector by disconnecting the AC power cord from either the wall socket-outlet or the PoE-Injector appliance coupler.

The PoE-Injector "Data In" and "Data & Power Out" interfaces are qualified as Safety Extra-Low Voltage (SELV) circuits according to IEC 62368-1. Connect these interfaces only to SELV interfaces on other equipment.

Warnings

Connect the PoE-Injector only to the IP device with which it was bought. Using the PoE-Injector with other IP devices can cause damage to the IP device.

Read the installation instructions before connecting the PoE-Injector to its power source.

Follow basic electricity safety measures whenever connecting the PoE-Injector to its power source.

A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power outlet voltage, do not connect the PoE-Injector to that power outlet.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 49cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

FCC regulations restrict the operation of this device to indoor use only.

Industry Canada statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Operation shall be limited to indoor use only;
leur utilisation doit être limitée à l'intérieur seulement

Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 30cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 30cm entre le radiateur et votre corps.

RED Compliance Statement

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency Range (MHz)	Max. Transmit Power (dBm) EIRP
2412 ~ 2472	19.96 dBm
5180 ~ 5240	22.95 dBm

5250 ~ 5320	22.93 dBm
5500 ~ 5700	29.99 dBm

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK(NI)

This device is restricted to indoor use