



AIROLINX-6 Series

**Industrial Outdoor IP67 Wi-Fi 6 (802.11a/n/ac/ax) Wireless Access
Point/Client/Bridge/Repeater/Router with 802.3at PoE PD; EOT: -40°C to 75°C**



Hardware Manual

Version 1.0
(April 2025)



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FCC Warning

This equipment has been tested and found to comply with the limits for a Class-A 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. It may cause harmful interference to radio communications if the equipment is not installed and used in accordance with the instructions. 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 or more 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.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Avertissement FCC

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence. Cela peut provoquer des interférences nuisibles aux communications radio si l'équipement n'est pas installé et utilisé conformément aux instructions. Cependant, il n'y a aucune garantie qu'aucune interférence ne se produira dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant puis en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger les interférences par une ou plusieurs des mesures suivantes:

- Réorientez ou déplacez l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connectez l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le revendeur ou un technicien radio / TV expérimenté pour obtenir de l'aide.

CE Mark Warning

This is a Class-A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Avertissement de marque CE

Ceci est un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être amené à prendre des mesures adéquates.

Industrial Wireless Access Points

Industrial Grade Wireless Access Point

Hardware Manual

Version 1.0 (April 2025)

Antaira Technologies - Industrial Wireless Access Points
AIROLINX-6 Series - Hardware Manual - v1.0

The manual supports the following models:

- AIROLINX-6-EOM-IP67-T
- AIROLINX-6-IOM-IP67-T
- AIROLINX-6-ILD-IP67-T

This document is the current official release hardware manual. Please check our website (www.antaيرا.com) for any updated manual or contact us by e-mail (support@antaيرا.com).

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1 Overview

Antaira Technologies' Airolinx-6 Series is a single radio industrial 802.11a/n/ac/ax wireless LAN access point with added router capabilities.

The Airolinx 6 Series is specifically designed for a wide variety of applications, including:

- Security – Reliable, high-speed Wi-Fi for IP surveillance cameras and security networks.
- Transportation – Ideal for intersection connectivity, public transit networks, and vehicle-to-infrastructure (V2I) communication.
- Automation – Provides seamless wireless connectivity for SCADA applications, remote monitoring, and industrial IoT.

Airolinx-6-IOM-IP67-T is a single-band outdoor AP with internal dual-plane omnidirectional antennas, providing seamless 360-degree coverage up to 2 miles.

Airolinx-6-EOM-IP67-T is a single-band outdoor AP with external dual-plane omnidirectional antennas, offering customizable coverage up to 2 miles with included antennas. Supports a variety of alternate antennas, including dish, sector, horn and panel antennas, providing extended distances versatility for deployments.

Airolinx-6-ILD-IP67-T is a single-band outdoor AP with a long-distance 21dBi panel antenna, capable of extending reliable connectivity up to 20 miles.

1.1 Product Hardware Features

System Interface and Performance

- IEEE 802.11a/n/ac/ax Wi-Fi 6
- LAN 1*10/100/1000Tx (with PoE PD)
- WLAN supports 5GHz Wi-Fi

Product Input

- PoE PD: IEEE 802.3at
- The power input specification complies with the requirements of SELV (Safety Extra Low Voltage) and the power supply should comply with UL 61010-1 & UL 61010-2-201

Operating Temperature

- Extended operating temperature model: -40°C to 75°C

Case / Installation

- IP67 protection plastic housing
- Pole mount design

1.2 Package Contents

- AIROLINX-6 Series unit
- External antennas (EOM model only)
- Quick Installation Guide
- Pole mounting bracket set with screws

1.3 Safety Precaution

Attention: If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input. The industrial wireless access point's hardware specs, ports, cabling information, and wiring installation will be described within this hardware manual.

Attention: Si la tension CC est fournie par un circuit externe, veuillez utiliser un dispositif de protection sur l'entrée d'alimentation. Les spécifications matérielles, les ports, les informations de câblage et l'installation du câblage du point d'accès sans fil industriel seront décrits dans ce manuel du matériel.

Warning Labels

The caution label means that you should check certain information on the user manual when working with the device. (Shown in *Figure 1.1*)

Étiquettes d'avertissement

L'étiquette d'avertissement signifie que vous devez vérifier certaines informations du manuel d'utilisation lorsque vous travaillez avec l'appareil. (Illustré à la *figure 1.1*)



Figure 1.1 - Caution Label
Figure 1.1 - Étiquette de mise en garde



Figure 1.2 - Hot Surface Warning Label
Figure 1.2 - Étiquette d'avertissement de surface chaude

2 Hardware Description

2.1 Physical Dimensions

Figure 2.1, below, shows the physical dimensions of this product without the external antennas:

(W x D x H) is 386mm x 386mm x 81.6mm

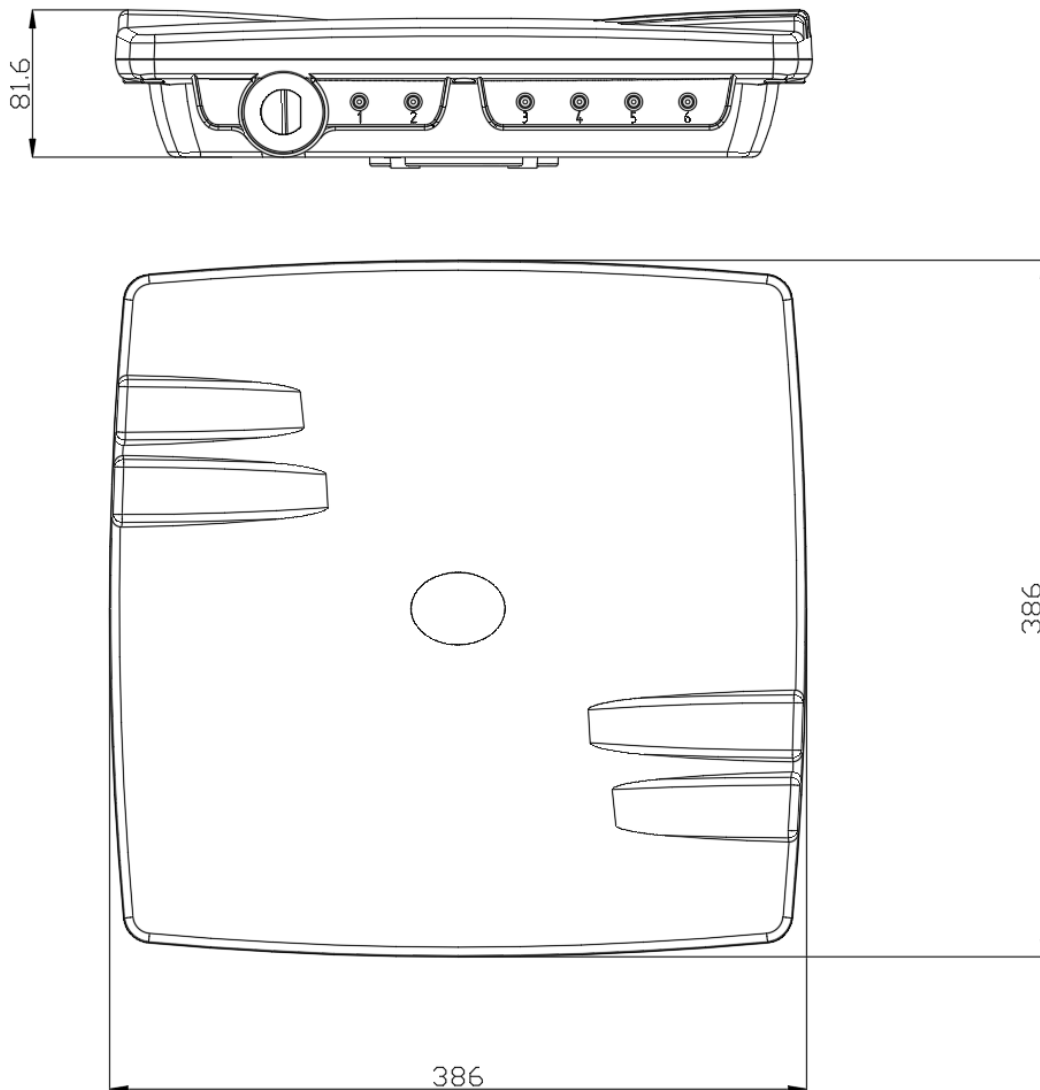


Figure 2.1 - Physical Dimensions

2.2 Front View Panel

Figure 2.2, below, shows the front panel of the product:



Figure 2.2 - Front View Panel

2.3 Ethernet Ports

- **RJ45 Ports**

RJ45 Ports (Auto MDI/MDI-X): The RJ45 ports are auto-sensing for 10Base-T, 100Base-TX, or 1000Base-T connections. Auto MDI means that the switch can connect to another switch or workstation without changing the straight-through or crossover cabling. See the figures below for straight-through and crossover cabling schematics.

• RJ45 Pin Assignments

Crossover Cable		Straight-Through Cable	
Pin Number / Signal	Pin Number / Signal	Pin Number / Signal	Pin Number / Signal
1 / RX+	3 / TX+	1 / RX+	1 / TX+
2 / RX-	6 / TX-	2 / RX-	2 / TX-
3 / TX+	1 / RX+	3 / TX+	3 / RX+
6 / TX-	2 / RX-	6 / TX-	6 / RX-

Table 2.2 - 10/100Base-T(X) RJ45 Pin Assignments

Crossover Cable		Straight-Through Cable	
Pin Number / Signal	Pin Number / Signal	Pin Number / Signal	Pin Number / Signal
1 / TP0+	3 / TP1+	1 / TP0+	1 / TP1+
2 / TP0-	6 / TP1-	2 / TP0-	2 / TP1-
3 / TP1+	1 / TP0+	3 / TP1+	3 / TP0+
4 / TP2+	7 / TP3+	4 / TP2+	4 / TP3+
5 / TP2-	8 / TP3-	5 / TP2-	5 / TP3-
6 / TP1-	2 / TP0-	6 / TP1-	6 / TP0-
7 / TP3+	4 / TP2+	7 / TP3+	7 / TP2+
8 / TP3-	5 / TP2-	8 / TP3-	8 / TP2-

Table 2.3 - 1000Base-T RJ45 Pin Assignments

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

2.4 Cabling

Twisted-pair segments can be connected with an Shielded Twisted Pair (STP) cable. The cable between the switch and the link partner (wireless AP, switch, hub, workstation, etc.) must be less than 100 meters (328 ft.) in length.

2.5 Wireless Antenna

For AIROLINX-6-EOM-IP67-T: The 5GHz antennas are connected with N-Type female connectors. Alternative antennas may be used with the **AIROLINX-6-EOM-IP67-T**. The **AIROLINX-6-EOM-IP67-T** uses N-Type female connectors. To connect an external antenna, use an antenna or antenna cable with N-Type male connectors.

For AIROLINX-6-IOM(ILD)-IP67-T: The 5GHz antennas are built inside the wireless unit.

3 Mounting Installation

3.1 Pole Mounting

The unit has a pole mounting kit on the rear panel. Please see *Figure 3.1* for a diagram on how to pole mount the wireless AP.

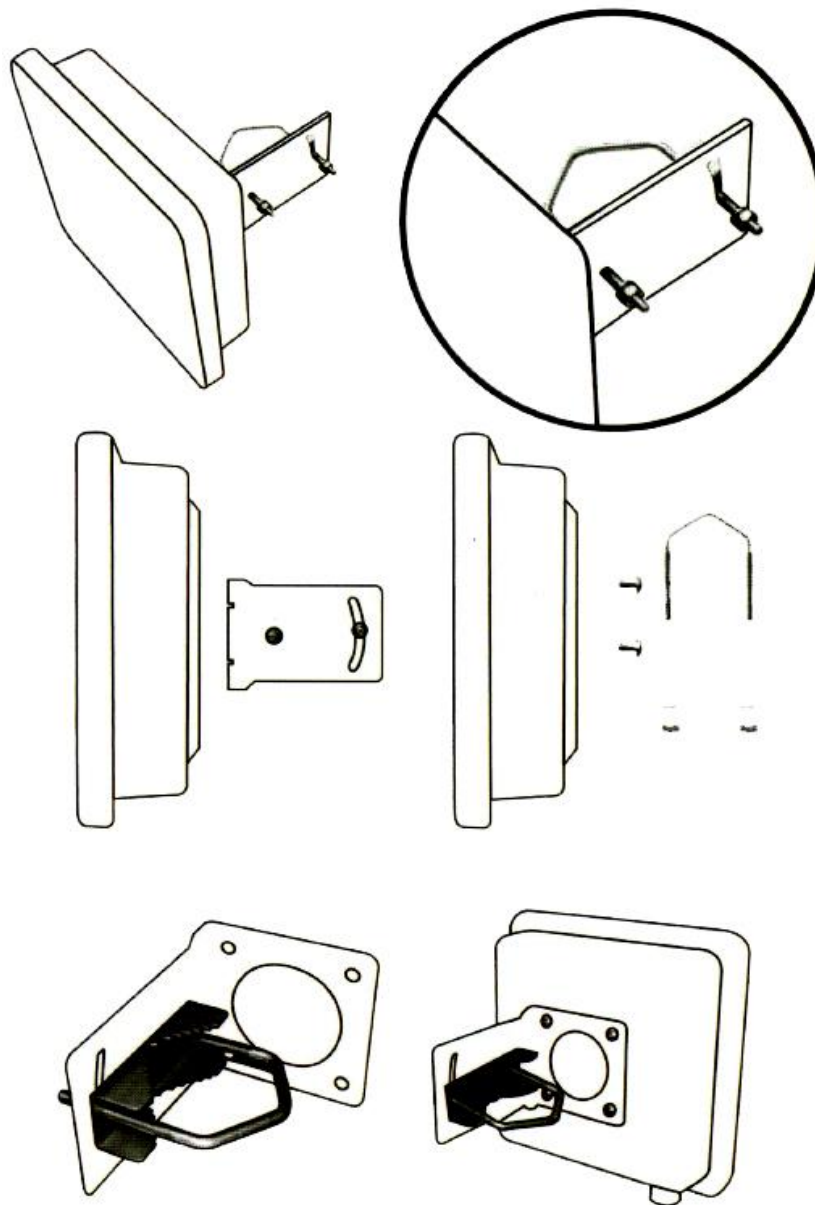


Figure 3.1 - Pole Mounting Bracket Installation Diagram

4 Hardware Installation

4.1 Installation Steps

This section will explain how to install the industrial wireless access point:

Installation Steps

1. Unpack the industrial wireless access point from the original packing box.
2. To hang the industrial wireless access point on a pole, please refer to the **Mounting Installation** section.
3. To power the industrial wireless access point, you will need an accessory that can provide PoE via an RJ45 cable.
4. Prepare the twisted-pair, straight-through category 5 cable for Ethernet connection/power.
5. Insert one side of the RJ45 cable into the wireless access point's Ethernet port (LAN) and on the other side into the networking device's Ethernet port (e.g.; switch, PC, or server).
6. When all connections are set, the installation is complete.

4.2 Maintenance and Service

- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- For proper grounding and surge protection of the device, always use shielded ethernet cables and RJ45 connectors.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions within the manual.
- Clean the device with dry soft cloth.

4.3 Troubleshooting

- Select the proper STP cable in order to construct the network. Use a shielded twisted-pair (STP) cable for RJ45 connections: 100Ω Category 5e or higher for 10/100/1000Mbps. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

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