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# **ASR-P351N**

# **User's Manual**

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**Product Type: DESKTOP-Type Pro RFID reader**

**Compatible with iOS, Android, Windows and Linux devices**

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**1<sup>st</sup> Edition**

**January 11, 2026**

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## About ASR-P351N

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Thank you very much for purchasing the ASR-P351N (hereinafter referred to as "this product"). This manual contains important precautions for the correct handling of this product. Please be sure to read it before use. After reading, please store this manual carefully for future reference.

This product is an integrated antenna RFID reader/writer. It enables simple and reliable reading of RFID tags placed on it. For example, it is suitable for reading shopping baskets containing clothing with attached RFID tags or batch reading large quantities of ID cards. Additionally, it supports the PoE port, allowing both power supply and communication through a single cable. It can be used in various system environments, such as iOS, Android, Windows, and Linux.

**■Revision history**

| <b>Version</b> | <b>Changes</b>         | <b>Date</b>             |
|----------------|------------------------|-------------------------|
| <b>1</b>       | <b>Initial version</b> | <b>January 11, 2025</b> |

Note: The contents of this document are subject to change without notice.

## Safety Instructions

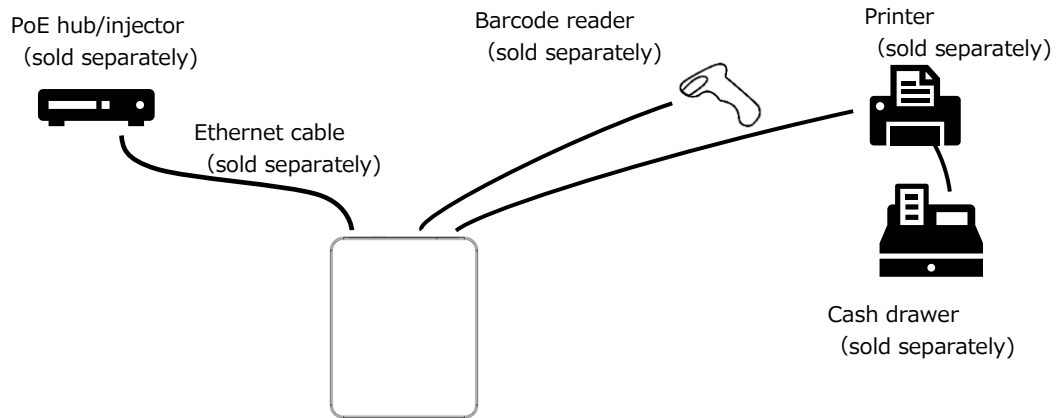
| <b>⚠ Warnings</b>                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Please do NOT disassemble, modify, or repair the ASR-P351N yourself.                                                                                                                                                                                                              |
| Please stop using the ASR-P351N if you notice anything unusual during operation such as smoke, noise, or an abnormal odor.                                                                                                                                                        |
| Please do NOT subject the ASR-P351N to strong impacts by dropping or throwing it. If the body of the ASR-P351N is damaged, please do NOT touch the damaged part or the parts inside.                                                                                              |
| The ASR-P351N is a RFID interrogator with 1W output power, which may affect medical devices in certain circumstances.<br>When operating the ASR-P351N, please make sure to keep it more than 22cm away from implantable medical devices and users of implantable medical devices. |

| <b>⚠ Cautions</b>                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Since each country or region has different regulations regarding radio waves, it is necessary to comply with the respective regulations. Modification of the AsReader is prohibited, and violations may result in penalties according to the regulations of each country or region. |
| Use the PoE hub/injector specified in this manual when connecting the AsReader. Use of non-standard PoE hub/injector may cause the AsReader failure or malfunction.                                                                                                                 |
| Please refer to local regulations when you recycle this device.                                                                                                                                                                                                                     |
| If you notice any abnormalities, please discontinue use and contact your distributor immediately.                                                                                                                                                                                   |
| Do not use, store, or leave the AsReader in hot places (eg. by the fire, near a heater, in direct sunlight, in a car in hot weather). It may cause rupture, malfunction, fire or injury.                                                                                            |
| Do not place the AsReader on an unstable surface such as a wobbly table or a tilted place. It may fall and cause damage to the device or injury.                                                                                                                                    |

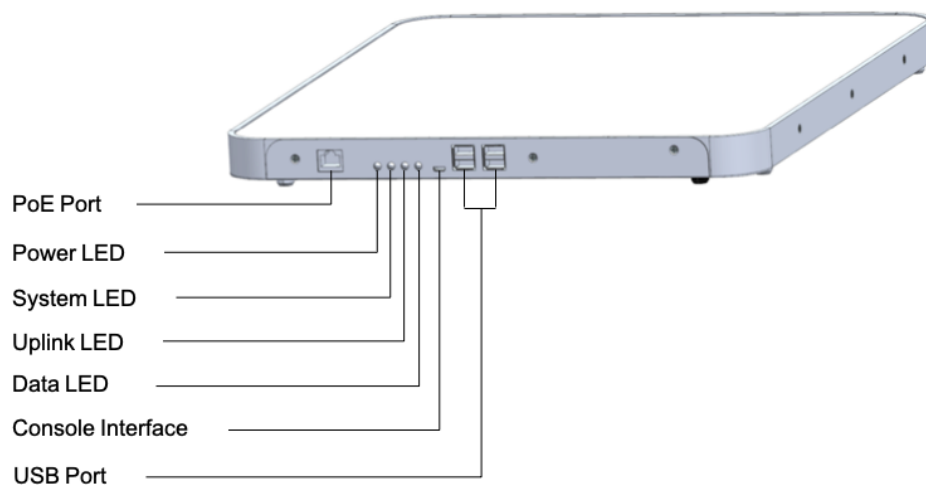
## 1 Preparation Before Use

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To build a system using the ASR-P351N, the following hardware is required in addition to the ASR-P351N itself.



## 2 Name of Each Part



## 3 Operation Guide

### 1 PoE Port

Power supply and network connection can be achieved by connecting to a PoE-compatible port.

**Connection method:**

- 1) Connect the PoE power supply device and this product using an Ethernet cable.
  - 2) Connect the PoE power supply device and the router.
- \* Please use a PoE power supply device that complies with the IEEE 802.3at standard.
- \* Please use a Category 5e or higher UTP cable as the Ethernet cable for connection.

**Power On:**

After connecting the devices as described above, once PoE power supply begins, the product will automatically start up. After startup is complete, all four LEDs will either light up or blink.

**Power Off:**

Turn off the power of the PoE power supply device, or disconnect the product from the PoE power supply device.

### 2 LED Indicator

| LED    | Color  | Description                           |
|--------|--------|---------------------------------------|
| POWER  | Red    | Lights up when power is supplied.     |
| SYSTEM | Orange | Blinks when the product is operating. |
| UPLINK | Green  | Blinks when Ethernet is connected.    |
| DATA   | Green  | Blinks during communication.          |

### 3 Console Interface

Maintenance port (not available for customer use).

### 4 External Device Connection Interface

The interface supports connecting HID devices such as barcode scanners, as well as ESC/POS-compatible printers for use.

- **Connecting HID Devices**

Connect HID devices such as barcode scanners to the USB port of this product. The total power output from the USB ports of this product is 2500mW (5V/500mA) across all four ports combined. If connecting a device that requires power consumption exceeding this limit, please connect the device to this product via a self-powered USB hub.

- **Connecting Printers**

Connect the printer to the USB port of this product and connect the printer's power supply. Ensure the printer used is compatible with ESC/POS.

- **Connecting Cash Drawers**

After connecting the printer to this product, connect the cash drawer to the printer. The cash drawer is controlled through the printer.

## Appendix: Product Specifications

|                         |                        |                                                                                                                                                                                                                                   |
|-------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                   |                        | ASR-P351N                                                                                                                                                                                                                         |
| RFID                    | Spec                   | ISO/IEC 18000-63 (Former 18000-6C) / EPCglobal Class 1 Gen 2                                                                                                                                                                      |
|                         | Radio Frequency        | North America: 902.75MHz ~ 927.25MHz                                                                                                                                                                                              |
|                         | Output                 | Max 30dBm (1W)                                                                                                                                                                                                                    |
|                         | Functions              | Inventory/Read/Write/Lock/Kill                                                                                                                                                                                                    |
| Power Source            | Input                  | ·RJ45 ×1 PoE (IEEE802.3at compliant)<br>* Be sure to use the following specifications for the PoE hub/injector and Ethernet cable to be used.<br>Ethernet cable: Category 5e or higher<br>PoE hub/injector: IEEE802.3at compliant |
|                         | Output                 | ·USB 2.0 Type-A ×4: 2500mW (4 ports in total)<br>*In case of connecting a device that requires more than the specified input, connect it via a self-powered USB hub.                                                              |
| Communication Interface | Ethernet               | RJ45                                                                                                                                                                                                                              |
|                         | USB 2.0 Type-A ×4      | To connect HID communication devices such as barcode scanners and ESC/POS compatible printers.                                                                                                                                    |
| Appearance              | Dimensions (W)×(D)×(H) | 433 × 352 × 31 mm                                                                                                                                                                                                                 |
|                         | Weight                 | Approx. 1900g                                                                                                                                                                                                                     |
|                         | Material               | Aluminum, PMMA                                                                                                                                                                                                                    |
|                         | Color                  | White                                                                                                                                                                                                                             |
|                         | LED Indicator          | Red<br>Orange<br>Green<br>Green                                                                                                                                                                                                   |
| Environment             | Operation Temp.        | -10~45 °C, 20~85 % RH                                                                                                                                                                                                             |
|                         | Storage Temp.          | -20~60 °C, 10~95 % RH                                                                                                                                                                                                             |
| Certifications          |                        | FCC, ISED, RoHS                                                                                                                                                                                                                   |
| Supported OS            |                        | iOS, Android, Windows, Linux                                                                                                                                                                                                      |

**ASR-P351N  
User's Manual**

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AsReader is a registered trademark of Asterisk Inc.

- App Store, iPad, iPadOS, iPhone, iPod touch, Mac, Macintosh, and macOS are trademarks of Apple Inc.
- iPhone is a registered trademark of AIHONE CO., LTD. in Japan and is used under a license.
- iOS is a trademark of Cisco Systems, Inc. in the United States and other countries and is used under a license.
- Google Play and Android are trademarks of Google LLC.
- Microsoft, Visual C#, Visual C++, Visual Studio, and Windows are trademarks or registered trademarks of Microsoft Corporation in the United States, Japan, and other countries.

FCC Warning:

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 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 to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

## ISED Statement

- English: 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.

- French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

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

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.