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## AGW-300 User's Manual



**ARTSYSTEM Co., Ltd.**


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## Document Information

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Date	Ver.	Details	Revised by	Position
2011.03.03	1.0	Initial Preparation	CHO HYUNJUN	Senior Researcher

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# 1. Overview

This document is prepared for the right use of AGW-300, USN Gateway. To maintain the equipment at the best condition with right handling methods, carefully read and fully understand this manual before using the equipment.

The specification is subject to change without notice, if necessary for improvement of performance

If you have any inquiries, please do not hesitate to contact us, the Art System Co., Ltd.

For safety, carefully read safety items in this manual before use.

## 1.1. Purpose

This document is the user's manual of AGW-300.

## 1.2. Scope

This document covers the structure and the operation methods of AGW-300

## 1.3. Cautions



### Cautions for Installation and Operation


Beware of electric shock in installing and operating the equipment as it uses DC 12 V power. Do not pull out the power supply and touch it with wet hands. You may have electric shock.

- **Check whether the output of the adaptor is DC 12V before using it.** We are not responsible for problems caused by using a power other than DC 12V.
- Avoid a place with direct sun rays and a closed hot and humid place when selecting an installation and storage position. Install and store the equipment in an indoor place under room temperature. Installing and storing it in a hot and humid place can reduce the life span of the product



### Cautions for Maintenance

- Do not place a strong impact on the equipment and do not drill the equipment. Otherwise, the equipment may be broken or the life span of the product can be short.

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#### Cautions for Disassembly

- Do not disassemble, repair and modify the equipment, except an authorized person.  
We are not responsible for any problems caused by disassembly without permission



#### Cautions According to Surrounding Environment

- This product adopts wireless communication using ZigBee. Therefore, communication status can be worse because of surrounding enviro



#### SPECIFY SERVICE INSTRUCTIONS AND WARRANTY TERMS

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 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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures:

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

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

#### FCC NOTE:

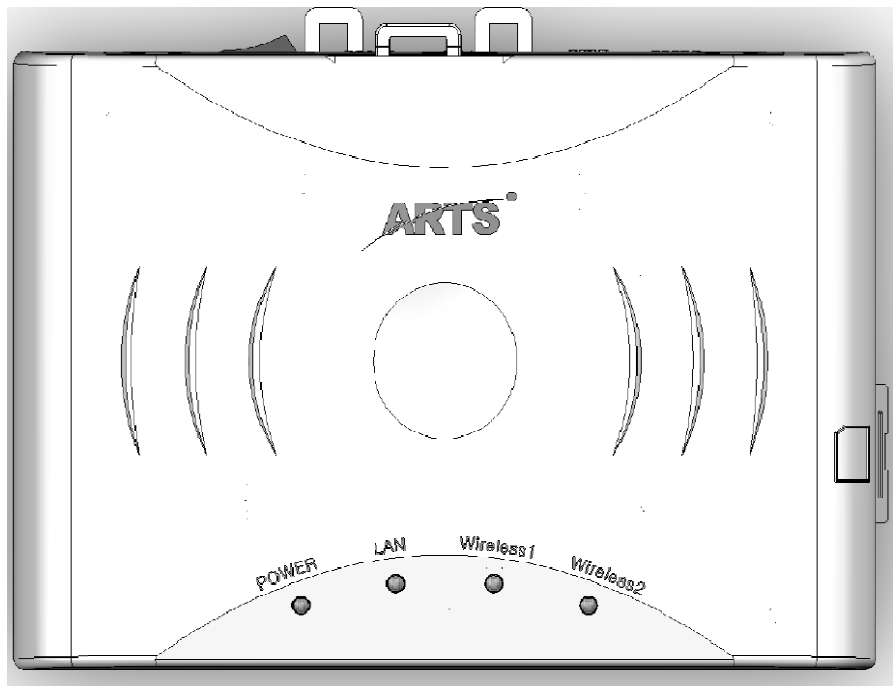
THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.  
SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

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## 2. Basic Structure

### 2.1. Name and Function of Each Part of AGW-300

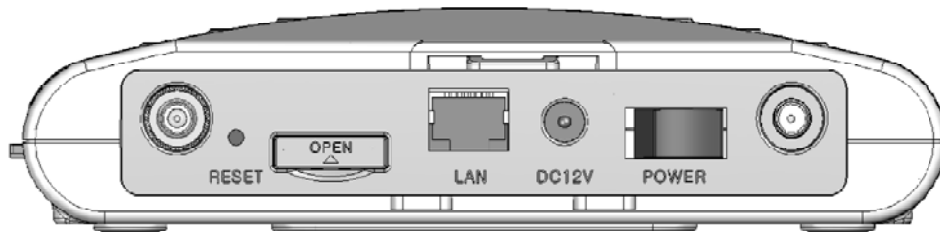
#### 2.1.1. The Top



- The top of the product consists of the following items as shown in the picture above
  - 4 LEDs

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### 2.1.2. The Back

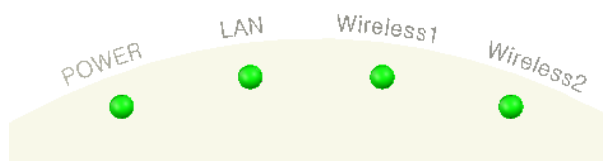


- The back of the product consists of the following items as shown in the picture above
  - 2.4 GHz Antenna
  - RESET
  - 24 Pins Socket 1 Port ( F/W Upgrade )
  - LAN Port
  - DC 12V Adaptor Socket
  - Power Switch


## 2.2. Detailed Function of Each Part of AGW-300

### 2.2.1. LED

- There are total 4 LEDs. Each LED has the following function.



- POWER

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- The LED is on when power is delivered from the outside and Power ON/OFF switch is on.
- LAN
  - The LED is blinking when data is exchanged with the gateway via Ethernet network.
- Wireless1
  - The LED is blinking when ZigBee network is activated properly.
- Wireless2
  - The LED is off when it is operated by a battery
  - Red LED is on when a battery is in the recharge mode
  - Green LED is on when recharging battery is completed..

### 2.2.2. Power Supply Part


- DC12V
  - DC 12V power connector supplies DC 12V power which is converted via an external adaptor
- POWER
  - Power On/Off switch controls the main power of this equipment.
- RESET
  - Reset button conducts initialization of the product

### 2.2.3. External Interface

- LAN
  - LAN Ports support 10Mbps/100Mbps and they are used for communication with a server (PC)
- 24 Pin Connector
  - It is used to update the product. A user should not use this connector.

## 2.3. Considerations in Installation

- Install the product in the center of the ZigBee Network for optimized ZigBee network management and communication. The interior and allocation of the products can affect the communication.
- Place the product in open space. Check whether there are metals, which may

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interfere with the communication. If there are many metals near the product, the communication may be not smoothly established.

- If you have any inquires while using and operating the system, please contact the manufacturer

## 2.4. Specification

Classification	Specification	
CPU	ARM9	400 Mhz
Interface	ZigBee	2.405 ~ 2.48 GHz
	LAN	Ethernet 10M/100M (1port)
	For Update	24 pin Mobile Connector
Power	Regular Power	DC 12V
	Working Current	Max. 900 mA (In recharging ) Normally 340 mA
Case	Material	Poly Carbonate
Dimension	150 x 107 x 36.5 (mm)	