

AL-020

Product Guide

V.1.1

Product Brief

Model: AL-020

LoRaWAN Indoor Gateway



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1. Overview

Abit AL-020 is hybrid LoRaWAN Gateway which can provide the LoRa Concentrator to receive all packets with different spreading factors at fixed frequencies. The Packet Forwarder can redirect packets to the Internet. You can access quickly AL-020 through our Web Portal. You can use modern browsers such as Chrome and Firefox to manage AL-020 to setup network configuration. The followings are AL-020 's software and hardware specification and its front view and right side view.

2. Product Features

- Long range transmission, could be almost 5-6Km (depends on the interference in the air)
- 2. Frequency range: 920~928MHz
- 3. High sensitivity: -136dBm
- 4. RF power: 13dBm
- 5. port 10/100Mbps Fast Ethernet
- 6. Manageable via Web Browser

3. Application

- 1. Automation and safety alarm in the community.
- 2. Various automated smart meters, such as water meter, gas meter and electricity meter.
- 3. Long range communication data collection and integration.
- 4. Outdoor information monitoring and collection, such as temperature, humidity and air quality information.
- 5. Electricity facilities measurement and management, such as smart street lighting.
- 6. Agriculture and animal husbandry monitoring and management.

SoC	TI AM3352 (Cortex A8)	
Voltage	12V 2A	
Flash	256Mbyte	
Storage	512Mbyte	
RF Interface		
Modulation	LoRa	
Transceiver	SEMTECH SX1301	
Frequency Range	920~928MHz	
Data rate	0.24~18.22Kbps	
Sensitivity	-136dBm	

4. Product Specifications

Network Communication		
Ethernet	10/100Mbps fast Ethernet	
Network Interface	Support DHCP, Static IP and DHCP Server	
Administration Portal	Support Chrome and Firefox	
ANT impedance	For LoRa: 50ohm	
Dimension	134 x 85 x 43 (mm)	
Operation Temp.	-40~70° C	
Storage Temp.	-40~85° C	

5. Indoor Gateway Outlook

