WISE-3310

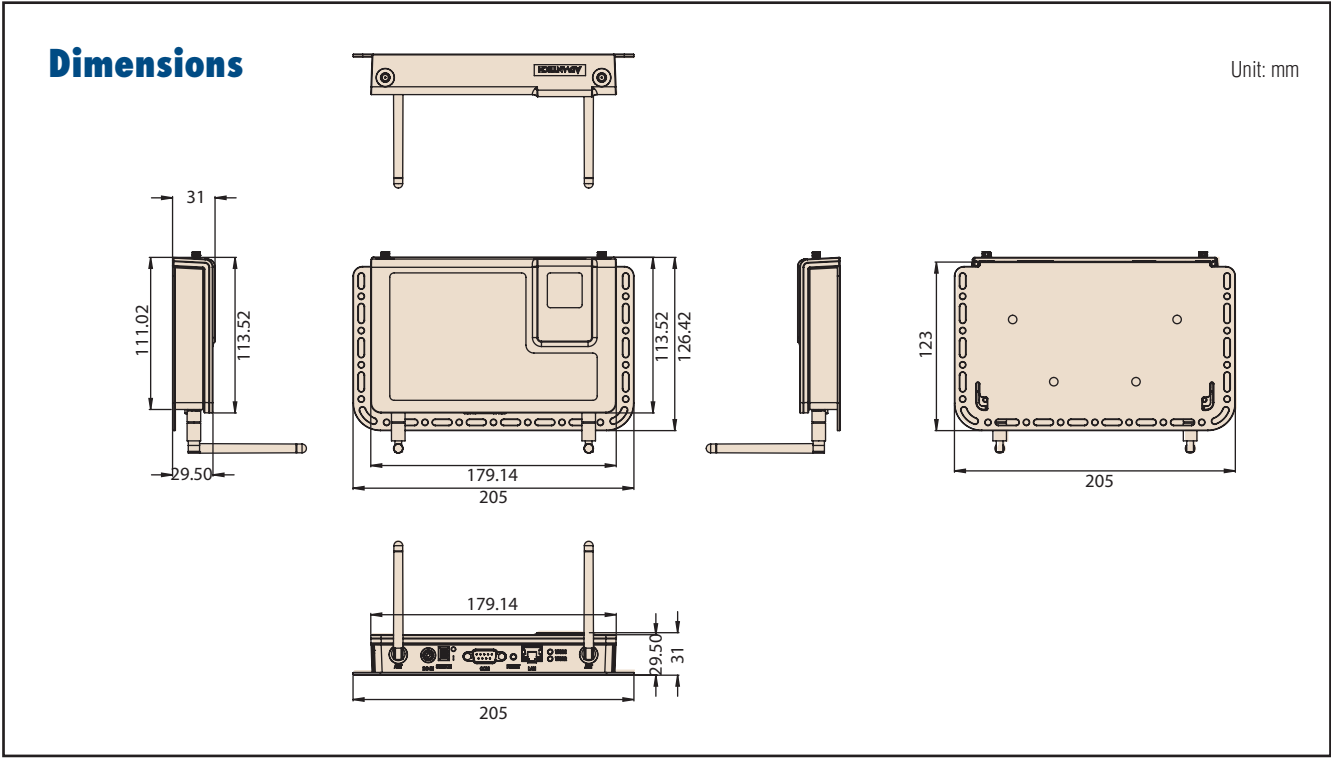## 200-Node Wireless IoT Network Gateway

Preliminary

Features

- All-in-One RISC-based Intelligent and Industrial platform with Freescale i.MX6 Dual Cortex-A9 1.0 GHz processor
- Linux 3.0.35 BSP embedded
- Compliant to 6LoWPAN and IEEE 802.15.4e standards
- AES-128 bit encyrption
- Supports up to 200 Wireless nodes
- Power saving mode and fanless design
- SUSIAccess for IoT management software

SUSIAccess Remote Device Management   CE FCC RoHS COMPLIANT 2002/95/EC

Introduction

Advantech RISC-based WPAN Network Controller, WISE-3310, is powered by the Freescale i.MX6 Dual Cortex-A9 1.0 GHz processor, Linux 3.0.35 BSP and Linear Dust LTC5800 Cortex M3 MCU. With changeable embedded modules and feature-rich protocol, WISE-3310 creates a cost-effective open platform for easy integration and development in different M2M/IoT applications. Connect with Advantech WPAN sensor nodes, by Smartmesh IP protocol for applications in wireless sensor networks where seamless internet protocol (IP) is valued. Also, SUSIAccess for IoT allows users to remote manage their devices and the entire wireless sensor network.

Specifications

Processor System	CPU	Freescale i.MX6 Dual Cortex-A9 1 GHz
	DRAM	On-board DDR3 1 GB
	Flash	4 MB SPI NOR Flash and 4 GB eMMC
I/O Interface	COM	1 RS232 (CTS, RTS, Tx, Rx)
	LAN	1 10/100/1000 Mpbs
	Antenna	2 SMA Antenna ports
Power	DC-input	DC 9~24V
	Power Reset	1, system reboot.
WSN	Standards-based	Based on 6LoWPAN and IEEE 802.15.4e standards
	Frequency Band	2.4000~2.4800 GHz
	Number of Channels	15
	Channel Separation	5 MHz
	Raw Data Rate	250 Kbps
	Output Power	High setting: 8 dBm / Low setting: 0 dBm
Software Support	OS	Linux V3.0.35
Mechanical & Environmental	Dimensions	205 x 123 x 31 mm (L x W x H) with a metal plate 179.14 x 113.52 x 31 mm without a metal plate
	Weight	312g
	Operating Temperature	0 ~ 40° C (32 ~ 104° F)
	Operating Humidity	5% ~ 95% Relative Humidity, non-condensing
	Mounting	Metal bracket wall mount
Certification	EMC	CE, FCC Class B, VCCI
	RF	CE, FCC, TELEC
	Safety	CE LVD, CB

All product specifications are subject to change without notice

Dimensions

Unit: mm

Plus Package Benefits

Free-bundled Software

SDK

Remote Device Management Software

System Recovery

Data Security

Remote Management

SUSiAccess
Remote Device Management

Ordering Information

Model Name	Description
WISE-3310-D200L1E	WISE-3310 WPAN GW, 200-Node, Linux OS

Packing List

Part No.	Description	Quantity
96PSA-A36W12R1	ADP A/D 100-240V 36W 12V	1
1750007622-01	Antenna 2.4Ghz 3.5dBi SMA Male Reverse	2

Related Models

Model Name	Description
WISE-1020-0C01E	WISE-1020 with Chip-antenna
WISE-1020-0S01E	WISE-1020 with SMA connector