AIM-33 Preliminary

5" Handheld Terminal
5" Smart Mobile POS

Features

- Industrial-grade mobile POS with built-in Cortex Quad Core, 1.3GHz
- Stylish and slim design provide ideal hand-held operation
- Modular configuration design for diversified applications
- Built-in MSR, IC, NFC Reader and 13M pixel camera
- Support optional 1D/2D barcode scanner
- Real-Time Data Transmissions via 4G LTE, Wi-Fi, or Bluetooth
- Battery supports Up to 10 Hours+ of Operation
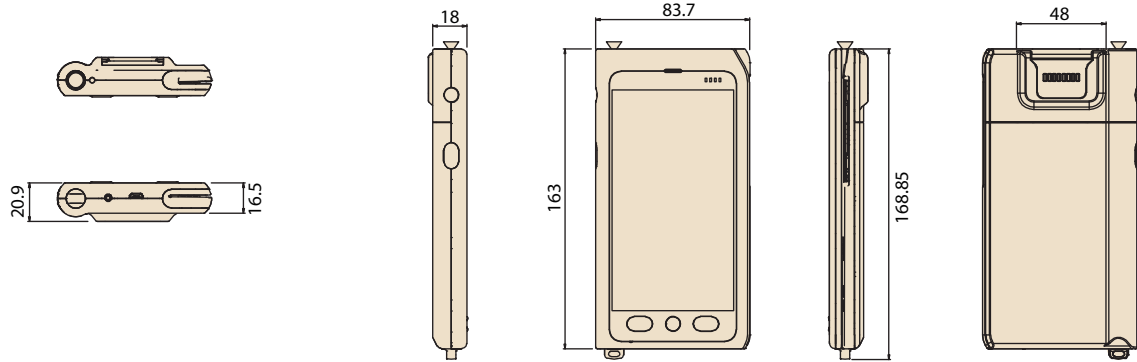- Support Android 5.1 operation system

Introduction

Advantech's AIM-33 is a mobile point-of-sale (mPOS) terminal designed for efficient and immediate order and payment processing operations. Targeted to the retail and hospitality industries, AIM-33 aims to satisfy demands for a lightweight yet rugged unit with an optimized price point to provide users with a versatile solution ideal for diverse application scenarios. The AIM-33 terminal also supports integration with various peripherals, such as a 1/2D barcode scanner or 8M camera, for extending the system functions and capabilities to ultimately enhance the customer shopping experience, streamline operations, and increase productivity.
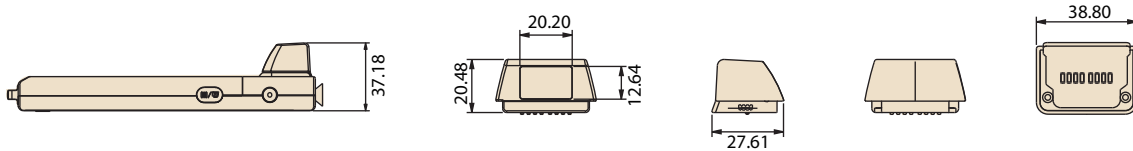
Specifications

Processor	CPU	Cortex-A53, quad-core processor, 1.3 GHz
OS		Support Android 5.1
Memory		1GB (Up to 2GB)
Storage		8GB (Up to 16GB)
Audio System		Speaker, Microphone
Display	Size / Type	5" color touch screen, TFT LCD
	Max. Resolution	HD (1280 x 720)
	Brightness (cd/m²)	450 cd/m² LED back light
Touch Panel		Capacitive multi touch screen
Application Buttons		Power button x 1 Quick button (Barcode/Camera) x1 Function key x 3
I/O Port		1 x MicroSD (up to 32GB) 1 x MicroUSB 2.0 client 1 x Unique connector with UART and DC-IN
Communication	WLAN	Internal 802.11a/b/g/n WLAN module
	Bluetooth	BT4.0 LE + 3.0HS, NFC support
	GPS	GPS, Beidou and Glonass
	RFID (Contactless)	13.56 MHz; ISO 14443 Type A/B; ISO/IEC 15693; MIFARE; qPBOC; NFC
	WWAN	Dual SIM support, 4G/3.75G/2.5G
	MSR	3-Track MSR with 3-DES encription; Built-in Triple DES and AES Encryption; DUKPT key management
	IC Card Reader	5V smart card; ISO/IEC 7816-1, 2, 3, 4; T=0 & T = 1
Data Collection		13M pixel camera with LED flash light 1D/2D barcode scanner (optional)
Dimensions & Weight		16 x 8.2 x 1.8 cm, 295 g (with battery)
Power	Battery	Li-Polymer battery, 4.2V @ 7200mAH
Environment	Operating Temperature	0 ~ 40° C
	Storage Temperature	0 ~ +60° C
	Operating Humidity	20% ~ 90%, non-condensing
Seal		Water splash resistence at front surface
Package Bundle		Power Adapter with Micro USB connector (5V, 1A)
Certifications		CCC, CE, FCC, NCC, BSMI

Dimensions

Unit: mm

18
83.7
48
20.9
16.5
163
168.85

Barcode Scanner

37.18
20.20
20.48
12.64
27.61
38.80

Ordering information

Handheld

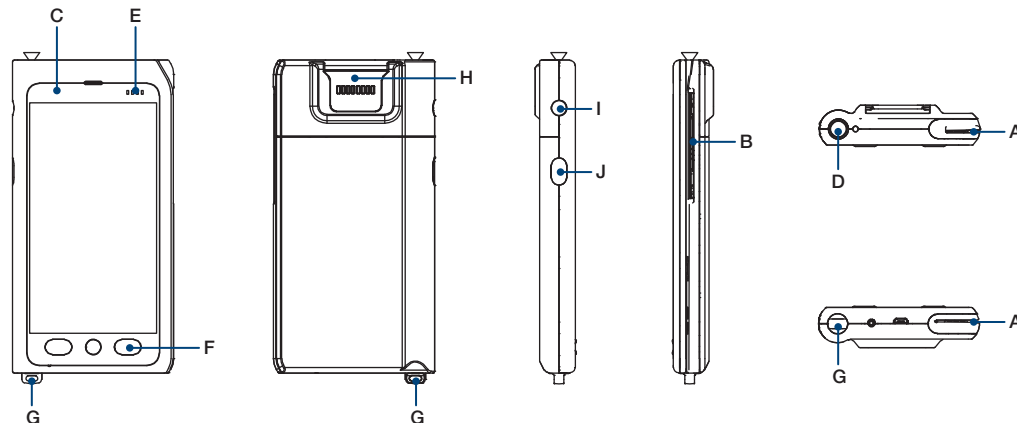| P/N	Description
AIM-33AT-M1110E	1.3GHz, 1GB RAM, 8GB Storage, Andriod5.1, 5'' Cap. T/P, LTE/Wi-Fi/GPS/BT, IC,MSR and NFC card reader, 13M camera
AIM-33AT-S1110E	1.3GHz, 1GB RAM, 8GB Storage, NFC card reader, Andriod5.1, 5'' Cap. T/P, LTE/Wi-Fi/GPS/BT, 13M camera

Peripheral Spec.

Barcode Scanner

Barcode	Honeywell 1D/2D barcode engine
Dimension	20.48 x 20.2 x 27.61 (mm)

Peripherals

P/N	Description
AIM-P301	1D/2D Honeywell barcode engine

Fully-Integrated I/O

A: MSR
B: IC Card Reader
C. NRF Reader Module (under screen panel)
D: Camera with LED flash
E: LED indicators
F: Function Keys
G: Wristband slot
H: Connector (DC-in, USB 2.0 and UART)
I: Power Key
J: Quick button (Barcode/Camera)