# 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 1D/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

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

## Processor

- **CPU**: Cortex-A53, quad-core processor, 1.3 GHz
- **OS**: Support Android 5.1
- **Memory**: 2GB
- **Storage**: 16GB

## Audio System

- **Size / Type**: 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

- **Type**: 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**: 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 encryption;-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
- **Dimensions & Weight**: 16 x 8.2 x 1.8 cm, 295 g (with battery)
- **Battery**: Li-Polymer battery, 4.2V @ 3600mAh
- **Seal**: Water splash resistance at front surface
- **Package Bundle**: Power Adapter with Micro USB connector (5V, 1A)
- **Certifications**: CCC, CE, FCC, NCC, BSMI

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All product specifications are subject to change without notice. Last updated: 15-Feb-2017
**Dimensions**

Unit: mm

**Barcode Scanner**

**Ordering information**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
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<tbody>
<tr>
<td>AIM-33AT-M1110E</td>
<td>1.3GHz, 2GB RAM, 16GB Storage, Android 5.1, 5&quot; Cap. T/P, LTE/Wi-Fi/GPS/BT, IC, MSR and NFC card reader, 13M camera</td>
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<tr>
<td>AIM-33AT-S1110E</td>
<td>1.3GHz, 2GB RAM, 16GB Storage, NFC card reader, Android 5.1, 5&quot; Cap. T/P, LTE/Wi-Fi/GPS/BT, 13M camera</td>
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**Peripheral Spec.**

<table>
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<tr>
<th>Barcode Scanner</th>
<th>Honeywell 1D/2D barcode engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension</td>
<td>20.48 x 20.2 x 27.61 (mm)</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Peripherals</th>
<th>Description</th>
</tr>
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<tr>
<td>P/N</td>
<td>Description</td>
</tr>
<tr>
<td>AIM-P301</td>
<td>1D/2D Honeywell barcode engine</td>
</tr>
</tbody>
</table>

**Fully-Integrated I/O**

A: MSR  
B: IC Card Reader  
C: NFR Reader Module  
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)