# APC-1733

**17.3" PCAP EMX-APLP Apollo Lake N4200 / HDMI/ 2xDP/ 4x USB 3.0/ 2 x LAN/ FANLESS Panel PC**

# Quick Reference Guide

**1st Ed – 28 June 2018**

Part No. E2017A731A0R

## FCC Statement

THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(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 "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTATLLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

## A Message to the Customer

### Avalue Customer Services

Each and every Avalue's product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whether your new Avalue device is destined for the laboratory or the factory floor, you can be assured that your product will provide the reliability and ease of operation for which the name Avalue has come to be known.

Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

### Technical Support

We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at:

http://www.avalue.com.tw/

# Content

# 1. Getting Started

## 1.1 Safety Precautions

**Warning!**

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

**Caution!**

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

## 1.2 Packing List

- 1 x APC-1733 17.3" PCAP EMX-APLP Apollo Lake N4200 / HDMI/ 2xDP/ 4x USB 3.0/ 2 x LAN/ FANLESS Panel PC
- 1 x AC/DC adapter 12V/5A 90 Plug Type
- 1 x Power cord

If any of the above items is damaged or missing, contact your retailer.

## 1.3 System Specifications

| Component | |
|---|---|
| **Mother Board** | EMX-APLP |
| **CPU** | Intel® Apollo Lake N4200 Processor |
| **CPU Cooler (Type)** | Fanless Heatsink |
| **Memory** | 2 x 204-pin DDR3L 1600 MHz SO-DIMM supports up to 16GB(MAX) |
| **Power Supply** | External power adapter |
| **Adapter** | AC/DC Adapter 100~240V 50~60Hz, 12V/5A |
| **System Fan** | Fanless |
| **Speaker** | 2 x 8Ω/2W speaker (E175X201304R) |
| **Camera** | ACC-NBCAM-05R<br>2.0M CMOS,1600*1200,USB2.0,60*8*4.5mm |
| **Wireless LAN** | (Optional) M.2 Type A 2230 WiFi, ACC-M2-WIFIBT-03R |
| **Operating System** | Windows 10 |
| **Other Component** | NFC: ACC-NFC-USB-03R<br>(Optional) E971XAP173302R, Handset module with 2D Barcode Scanner<br>ACC-BARCODE-004R, 2D Barcode scanner reader N3680SR-W1-USB |
| **Storage** | |
| **Other Storage Device** | mSATA |
| **Panel** | |
| **LCD Panel** | 17.3 CHIMEI INNOLUX N173HGE-E11 FHD eDP Panel |
| **Touch Screen** | 17.3" PCAP Touch |
| **Touch Controller** | EETI |
| **External I/O** | |
| **USB Port** | 4 x USB3.0 |
| **Video Port** | 1 x HDMI/DP, 1 x DP++ |
| **LAN Port** | 1 x RJ-45 Intel® i211AT Gigabit Ethernet |
| **Wireless LAN Antenna** | (Optional)<br>E199TN00012R x 1<br>E199TN00013R x 1 |
| **Expansion Slots** | 1 x full size Mini PCI-e support mSATA |
| **Mechanical** | |
| **Power Type** | +12V ~ 24V ATX, ACC-ADP-060N-02R |
| **Power Connector Type** | 12V ~ 24VDC Input, Screw type |
| **Dimension** | 445 (L) x 281 (H) x 45 (D) mm |

**APC-1733**

| | |
|---|---|
| **Weight** | 4.7kg |
| **Color** | White |
| **Fanless** | Yes |
| **Reliability** | |
| **EMC** | CE FCC Class A |
| **Dust and Rain Test** | IP-65 on Front Panel |
| **Vibration Test** | Random Vibration Operation<br><br>1 PSD: 0.00454G²/Hz, 1.5 Grms<br><br>2 Operation mode<br><br>3 Test Frequency : 5-500Hz<br><br>4 Test Axis : X,Y and Z axis<br><br>5 30 min. per each axis<br><br>6 IEC 60068-2-64 Test:Fh<br><br>Sine Vibration test (Non-operation)<br><br>1 Test Acceleration : 2G<br><br>2 Test frequency : 5~500 Hz<br><br>3 Sweep：1 Oct/ per one minute. (logarithmic)<br><br>4 Test Axis : X,Y and Z axis<br><br>5 Test time :30 min. each axis<br><br>6 System condition : Non-Operating mode<br><br>7. Reference IEC 60068-2-6 Testing procedures<br><br>Package vibration test<br><br>1. PSD: 0.026G²/Hz , 2.16 Grms<br><br>2. Non-operation mode<br><br>3. Test Frequency : 5-500Hz<br><br>4. Test Axis : X,Y and Z axis<br><br>5. 30 min. per each axis<br><br>6. IEC 60068-2-64 Test:Fh |
| **Mechanical Shock Test** | Standard, With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms |
| **Drop Test** | 1 One corner , three edges, six faces<br>2 ISTA 2A, IEC-60068-2-32 (96.5cm) Test:Ed |
| **Operating Temperature** | Normal Temperature: 0°C ~ 35°C (32°F ~ 95°F) |
| **Operating Humidity** | 10% ~ 90% Relative Humidity, Non-condensing |
| **Storage Temperature** | Normal Temperature: -20°C ~ 60°C (14°F ~ 122°F) |

**Note:** Specifications are subject to change without notice.
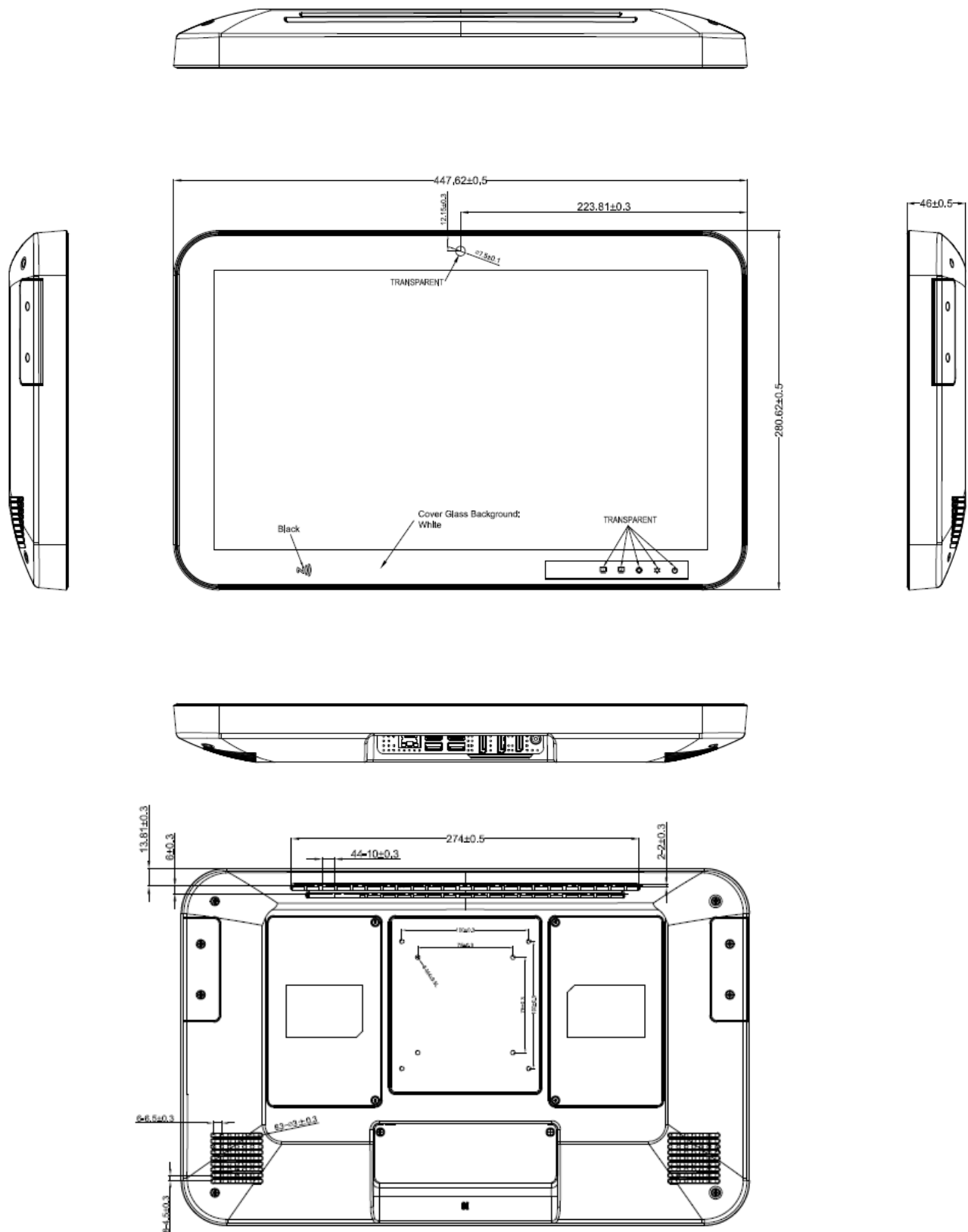
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## 1.4 System Overview
### 1.4.1 Front View



NFC

Browser

Notepad

Brightness

Up/down

Power on/off
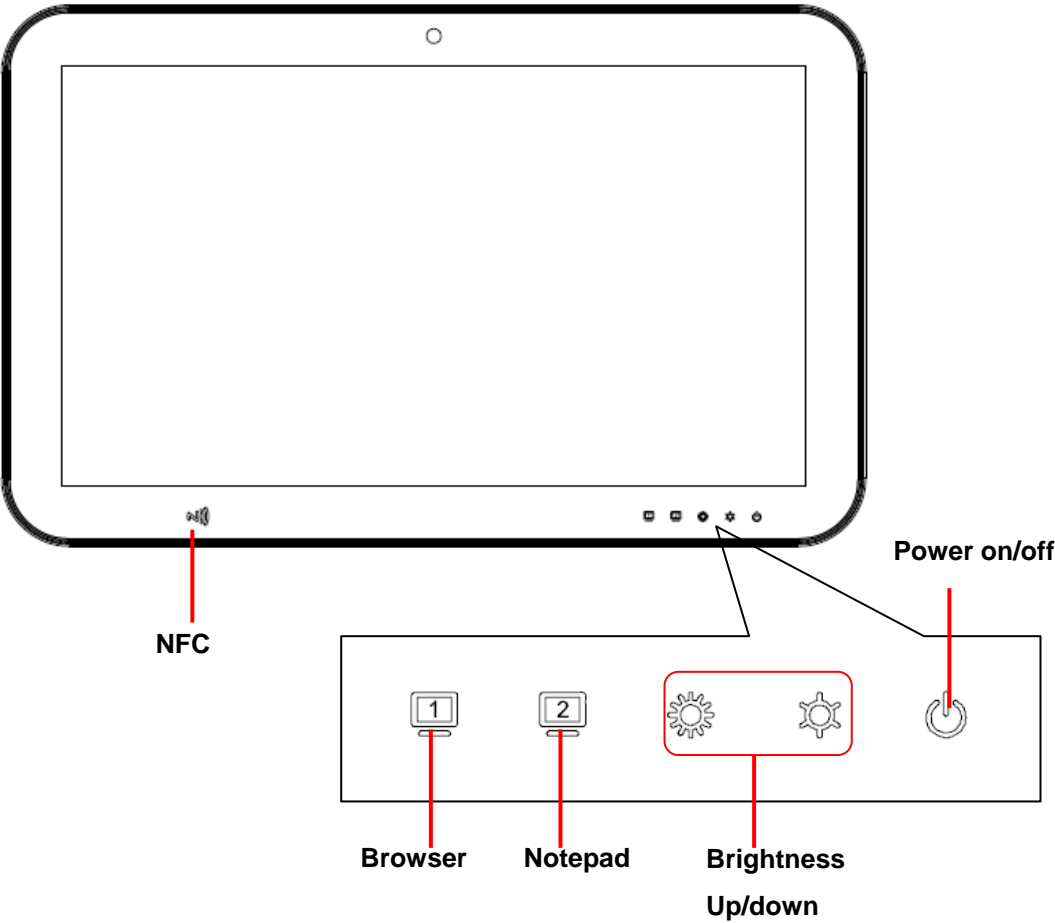
**1.4.2    Rear View**
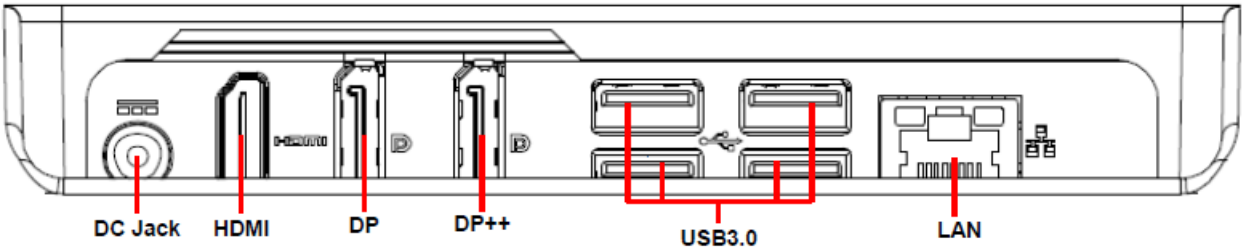


## Connectors

| Label | Function | Note |
|-------|----------|------|
| **DC Jack** | DC-in power connector | |
| **HDMI** | HDMI connector | |
| **DP** | DP connector | |
| **DP++** | DP++ connector | |
| **USB3.0** | 4 x USB 3.0 connector | |
| **LAN** | RJ-45 Ethernet | |

## 1.5 System Dimensions



**(Unit: mm)**

# 2. Hardware Configuration

For advanced information, please refer to:

1- EMX-APLP User's Manual

**Note:** If you need more information, please visit our website:

**http://www.avalue.com.tw**