

### Features

- ◆ Intel® Apollo Lake Processors
- ◆ DDR3L-1600MHz, Onboard 2GB
- ◆ 1 x LVDS, 1 x HDMI
- ◆ 1 x SATA, 1 x mSATA
- ◆ 2 x USB3.0, 1 x USB2.0, 2 x RS232
- ◆ 1 x RJ45, 1 x M.2 (2230) for WIFI

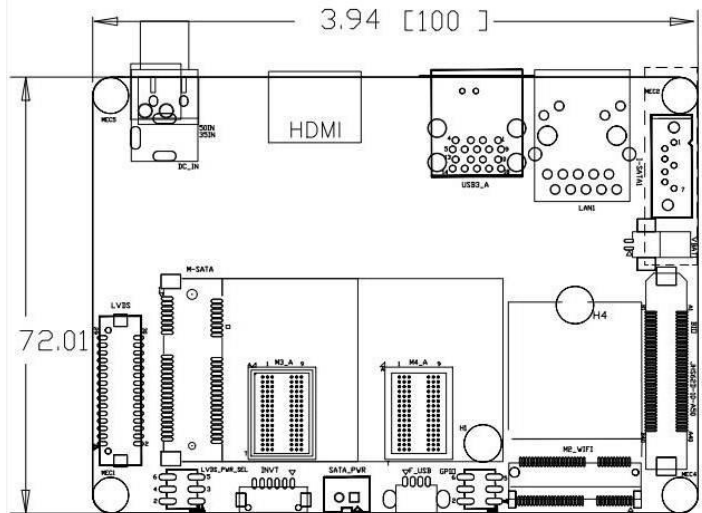
### Core System

CPU	Intel® Atom x5-E3930
Frequency	1.30 GHz (Up to 1.80 GHz)
BIOS	AMI Source Code
Chipset	SOC
System Memory	DDR3L-1600MHz, Onboard 2GB
GPU	Intel® HD Graphics 500
Graphic Engine	DirectX 11.1, OpenGL 3.0, OCL 1.1, OpenGL ES 2.0
Network Controller	1 x I210-IT Gigabit Ethernet
SIO	F81801U-I
Storage	1 x SATA, 1 x mSATA
JAHC (Patented Tech)	WatchDog Timer, Auto Power On, RTC

### Ordering Information

AP23-E3930	CPU: Atom x5-E3930, RAM: 2GB 1 x LVDS, 1 x HDMI 1 x SATA, 1 x mSATA 2 x USB3.0, 1 x USB2.0, 2 x RS232, 1 x RJ45
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### Dimensions and Drawing



### Rear I/O

USB	2 x USB 3.0
Display Interface	1 x HDMI (Max. 3840 x 2160 @30Hz)
Ethernet	1 x RJ45

### Internal I/O

USB	1 x USB 2.0
Display Interface	1 x Dual Channel 24-bit LVDS (Max. 1920 x 1080 @60Hz)
Mini-PCIe	1 x Full-size Mini-PCIe for mSATA
Serial	2 x RS232
M.2	1 x M.2 (2230) for WIFI

### Mechanical and Environmental

Dimensions	100mm x 72mm
Power Requirement	Phoenix Terminal DC-IN/12V
Operation System	Windows 10(64-bit) / Linux
Storage Temperature	-40° C ~ 75° C (-40° F ~ 167° F)
Operating Temperature	-20° C ~ 60° C (-4° F ~ 140° F) at 0.7m/s Air Flow
Relative Humidity	95%@60° C (non-condensing)

