

# ARK-1123L

## Intel® Atom E3825 SoC with Dual COM and GPIO Palm-Size Fanless Box PC



WISE-PaaS/RMM



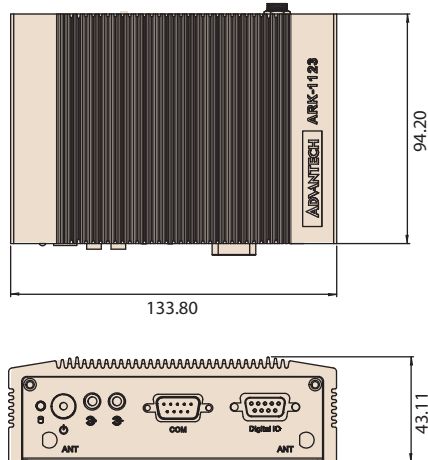
### Features

- Intel® Atom™ Processor E3825 Dual Core 1.33 GHz SoC
- 1 x 2.5" SATA HDD/SSD Bay
- 1 x GbE & 1 x VGA & 1 x GPIO
- 1 x RS-232 & 1 x RS-232/422/485
- 1 x Full-Size MiniPCle (ex. WLAN or WWAN module)
- 1 x Half Size MiniPCle (ex. mSATA)
- Optional VESA / DIN Rail / Wall Mounting kits
- Threaded DC jack design
- Supports SUSIAccess and Embedded Software APIs

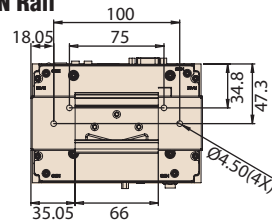
### Specifications

| ARK-1123L-S3A2E   |                            |                                                                                                                                                                       |
|-------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor System  | CPU                        | Intel Atom E3825 Dual Core SoC                                                                                                                                        |
|                   | Frequency                  | 1.33 GHz                                                                                                                                                              |
|                   | L2 Cache                   | 1 MB                                                                                                                                                                  |
|                   | BIOS                       | AMI EFI 64 Mbit (Default BIOS is supported for 64-bit OS installation, BIOS for 32-bit OS is supported by project)                                                    |
| Memory            | Technology                 | DDR3L 1066MHz                                                                                                                                                         |
|                   | Max. Capacity              | 8 GB                                                                                                                                                                  |
|                   | Socket                     | 1 x 204-pin SO-DIMM                                                                                                                                                   |
| Graphics          | Chipset                    | Intel® Atom SoC integrated                                                                                                                                            |
|                   | Graphic Engine             | DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 support<br>Encode: H264, MPEG2/4, VC1, WMV9<br>Decode: H264, MPEG2                                                        |
|                   | VGA                        | 1 x VGA, support up to 1920 x 1200 at 60Hz                                                                                                                            |
|                   | Audio                      | ALC-888S, High Definition Audio. Line-out & Line-in                                                                                                                   |
| Ethernet          | LAN #1                     | 10/100/1000 Mbps Intel I210 GbE, support Wake on LAN                                                                                                                  |
| I/O Interface     | Serial Ports               | 1 x RS-232 & 1 x RS-232/422/485 (BIOS selectable)                                                                                                                     |
|                   | USB Interface              | 1 x USB 2.0 & 1 x USB3.0                                                                                                                                              |
| Other             | Watchdog timer             | 255-level timer interval, setup by software                                                                                                                           |
|                   | GPIO                       | 8 bit GPIO                                                                                                                                                            |
| Expansion         | Mini PCIe                  | 1 x Full-size Mini PCIe, support WLAN or WWAN module                                                                                                                  |
| Storage           | 2.5" Drive Bay             | 1 x 2.5" SATA HDD Bay (Max Height 9.5mm)                                                                                                                              |
|                   | mSATA                      | 1 x Half-size mSATA                                                                                                                                                   |
| Software Support  | Microsoft Windows          | WES7, Windows 7, WE8S, Windows 8 and Windows 10                                                                                                                       |
|                   | Linux                      | Support (by Project)                                                                                                                                                  |
| Power Requirement | Power Input Voltage        | Single 12 V <sub>DC</sub>                                                                                                                                             |
|                   | Power Adapter              | AC to DC, DC12 V/3 A, 36 W with threaded design                                                                                                                       |
| Power Consumption | Typical                    | 5.28W                                                                                                                                                                 |
|                   | Max.                       | 8.16W                                                                                                                                                                 |
| Mechanical        | Construction               | Aluminum housing                                                                                                                                                      |
|                   | Mounting                   | VESA/DIN Rail/Wall Mounting Kits (Optional)                                                                                                                           |
|                   | Dimensions (W x H x D)     | 133.8 x 43.1 x 94.2 mm (5.27" x 1.7" x 3.71")                                                                                                                         |
|                   | Weight                     | 0.8kg                                                                                                                                                                 |
| Environment       | Operating Temperature      | With extended temperature SSD/mSATA/RAM : -30 ~ 70° C with 0.7m/s air flow<br>With standard temperature HDD/SSD/mSATA/RAM peripherals: 0 ~ 40° C with 0.7m/s air flow |
|                   | Storage Temperature        | -40 ~ 85° C (-40~185° F)                                                                                                                                              |
|                   | Relative Humidity          | 95% @ 40° C (non-condensing)                                                                                                                                          |
|                   | Vibration During Operation | With mSATA/SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis<br>With HDD: 0.5Grms, IEC 60068-2-64, random, 5~500Hz, 3 axes, 1hr/axis                         |
|                   | Shock During Operation     | With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration<br>With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration                                           |
|                   | Regulation                 | EMC<br>Safety                                                                                                                                                         |
|                   |                            | CE/FCC Class A, CCC, BSMI<br>UL, CCC, BSMI, CB                                                                                                                        |

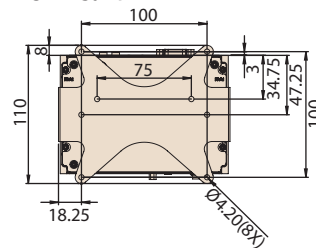
## Dimensions



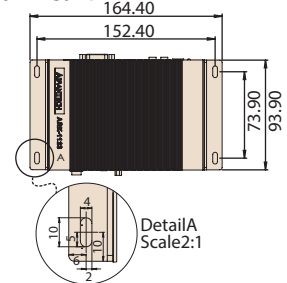
DIN Rail



VESA mount

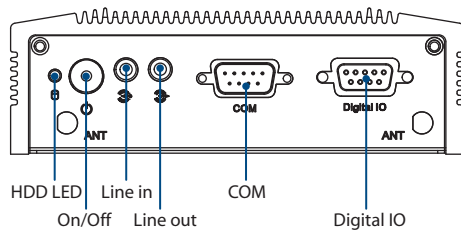


Wall mount

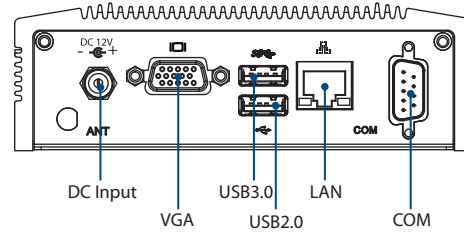


Unit: mm

Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

| Part Number     | Intel CPU        | RAM       | VGA | GbE | USB 2.0 | USB 3.0 | RS-232 | RS-232/422/485 | GPIO | Audio               | MiniPCle    | 2.5" HDD bay | mSATA   | Operating Temperature |
|-----------------|------------------|-----------|-----|-----|---------|---------|--------|----------------|------|---------------------|-------------|--------------|---------|-----------------------|
| ARK-1123L-S3A2E | Intel Atom E3825 | Up to 8GB | 1   | 1   | 1       | 1       | 1      | 1              | 1    | Line in<br>Line out | 1 Full size | 1            | 1 (H/S) | -30 ~ 70° C           |

Note: Memory, storage and operating system bundled by request.

## Packing List

| Part Number    | Description                                     |
|----------------|-------------------------------------------------|
| -              | 1 x ARK-1123L Unit                              |
| -              | 1 x User Manual (Simplified Chinese)            |
| 96PSA-A36W12W7 | 1 x AC to DC adapter DC 12V/3A 36W, -20 ~ 60° C |

## Embedded OS (Only available for T-Parts OEM, and CTOS service)

| Part Number | Description                                       |
|-------------|---------------------------------------------------|
| 2070013031  | WE7E 64-bit with EN/JP/TC/SC (OS size around 11G) |
| 2070013369  | WE8S 64-bit with EN/JP/TC/SC (OS size around 13G) |
| 2070014790  | WIN10 IoT LTSC x64 Eng                            |

## Optional Items

| Part Number | Description                           |
|-------------|---------------------------------------|
| 1700001524  | Power Cable 3-pin 180cm, USA type     |
| 170203183C  | Power Cable 3-pin 180cm, Europe type  |
| 170203180A  | Power Cable 3-pin 180cm, UK type      |
| 1700008921  | Power Cable 3-pin PSE Mark 183cm      |
| AMK-V003E   | ARK-112X series VESA mounting kit     |
| AMK-R001E   | ARK-112X series DIN-rail mounting kit |
| AMK-W001E   | ARK-112X series Wall mounting kit     |

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

 obchod@autocont-ipc.cz

 +420 552 301 002

 [www.autocont-ipc.cz](http://www.autocont-ipc.cz)



### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.