

ARK-1120L

Intel® Atom™ N455 4 USB 2.0, Audio and Competitive Pricing Fanless Box PC



Features

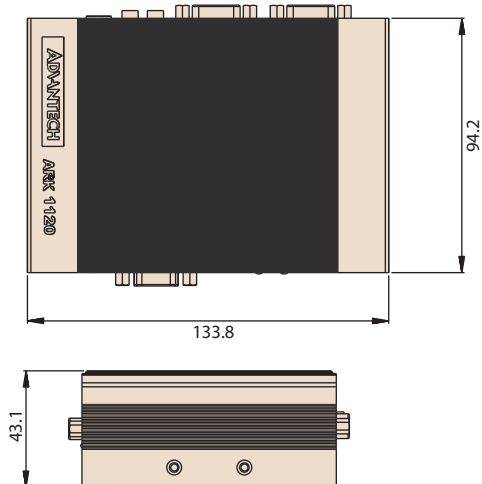
- Intel® Atom™ processor N455 1.66 GHz + ICH8M
- Low power consumption, < 10W
- Palm-size design: 133.8(W) x 43.1(H) x 94.2(D) mm
- DDR3 memory support, up to 2GB
- Supports 2.5" SATA HDD Bay
- One half-size mini-PCIe slot. Ex: Wi-Fi add-on card
- 2 x RS-232, 4 x USB ports and Audio line-in, line out
- Optional VESA/DIN-rail/Wall mount
- Lockable DC jack design
- Supports SUSIAccess and Embedded Software APIs



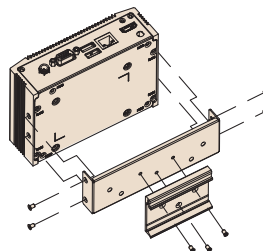
Specifications

| | | ARK-1120L-N5A1E |
|----------------------------------|----------------------------|--|
| Processor System | CPU | Intel Atom processor N455 |
| | Frequency | 1.66 GHz |
| | L2 Cache | 512KB |
| | System Chipset | Intel ICH8-M |
| | BIOS | AMI 16 Mbit Flash BIOS |
| Memory | Technology | DDR3 up to 667 MHz |
| | Max. Capacity | 2 GB |
| | Socket | 1 x 204 pin SO-DIMM |
| Graphics | Chipset | Intel ICH8-M |
| | Interface | CRT interface, up to 1600 x 1200 (SXGA) |
| Ethernet | LAN | 1 x 10/100/1000 Mbps Intel 82567V GbE, Support Wake on LAN |
| Audio | Interface | Realtek ALC892, Line-out, Line-in |
| I/O Interface | Serial Ports | 2 x RS-232 |
| | USB Interface | 4 x USB ports, USB 2.0 Compliant |
| Other | Watchdog timer | 255-level timer interval, setup by software |
| Expansion | Mini PCIe | 1 x half-size Mini PCIe |
| Storage | HDD | Support one SATA 2.5" HDD Bay (support 9.5mm height only) |
| | SSD | Supports CompactFlash socket for type I/II CompactFlash disk (only available for T-Parts and CTOS service) |
| Software Support | Microsoft Windows | Windows 7, XP Professional, XP Embedded, WinCE 6.0 |
| | Linux | Ubuntu v10.04.1 |
| Power Requirement | Power Type | ATX |
| | Power Input Voltage | 12 V _{DC} |
| | Minimum Power Input | 12 V, 1.5 A |
| | Power Adaptor | AC to DC, DC12 V/3 A, 36 W (Support DC Locker Design) |
| Power Consumption | Typical | 9.12 W |
| | Max | 10.80 W |
| Mechanical | Construction | Aluminum housing |
| | Mounting | Support DIN Rail / VESA / Wall mounts (Optional) |
| | Dimensions (W x H x D) | 133.8 x 43.1 x 94.2 mm (5.27" x 1.70" x 3.71") |
| | Weight | 0.7 kg (1.55 lb) |
| Environmental and Certifications | Operating Temperature | 0 ~ 40° C (32 ~ 104° F) with 0.7m/s air flow and extend temperature HDD |
| | Storage Temperature | -40 ~ 85° C (-40 ~ 185° F) |
| | Relative Humidity | 95% @ 40° C (non-condensing) |
| | Vibration During Operation | With CompactFlash disk: 3Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1hr/axis. |
| | Shock During Operation | With CompactFlash disk: 30Grms, IEC 60068-2-27, half sine, 11 ms duration |
| | EMC | CE/FCC Class A, CCC, BSMI |
| | Safety Certifications | UL, CCC, BSMI, CB |

Dimensions

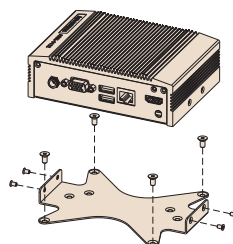


DIN Rail

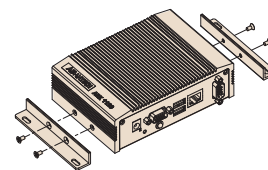


Unit: mm

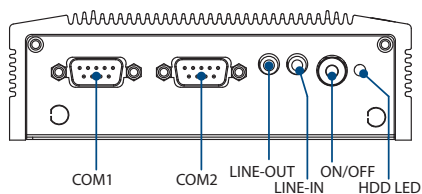
VESA mount



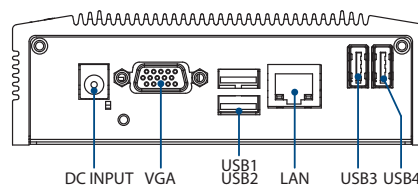
Wall mount



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 | Audio | 2.5" HDD bay | CF | USB 2.0 | RS-232 | RS-232/422/485 | MiniPCIe | Operating Temp. | OS |
|------------------|----------------------|--------------|-----|-----|---------------------|-------------------|----|---------|--------|----------------|-------------|-----------------|---------------------|
| ARK-1120L-N5A1E | Atom N455 1.66GHz | Up to 2GB | 1 | 1 | Line in Line out | 1 | 1 | 4 | 2 | N/A | 1 Half size | 0 ~ 40° C | - |
| ARK-1120LX-N5A1E | Atom N455 1.66GHz | 2GB Built-In | 1 | 1 | Line in Line out | 320GB Built-in | 1 | 4 | 2 | N/A | 1 Half size | 0 ~ 40° C | Win XPE Built-in |

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

Packing List

| Part Number | Description |
|----------------|---|
| - | 1 x ARK-1120 unit |
| - | 1 x Driver/Utility CD/manual |
| - | 1 x Traditional Chinese user manual for CCC |
| - | 1 x China RoHS |
| 1960047289T001 | DC power adapter locker |
| 1757003553 | AC-to-DC Adapter DC12 V/3 A 36 W, with DC-Jack, 0 ~ 40° C for Home and Office Use |

Optional Items

| Part Number | Description |
|-------------|---------------------------------------|
| 1700001524 | Power Cable 3-pin 180 cm, USA type |
| 170203183C | Power Cable 3-pin 180 cm, Europe Type |
| 170203180A | Power Cable 3-pin 180 cm, UK Type |
| 1700008921 | Power Cable 3-pin PSE Mark 183cm |
| AMK-V003E | ARK-112X series VESA mount kits |
| AMK-R001E | ARK-112X series DIN Rail mount kits |
| AMK-W001E | ARK-112X series wall mount kits |

Embedded OS

| Part Number | Description |
|-------------|----------------------------|
| 2070012123 | XPE WES2009 V4.4 24MUI |
| 2070012267 | WES7E 32bit w/ EN/JP/TC/SC |