

ARK-5261

Intel® Celeron® Processor J1900 Fanless Embedded BOX PC with PCI/PCIe Expansion and Dual Mobile HDDs/SSDs



ARK-5261i

ARK-5261S
ARK-5261P



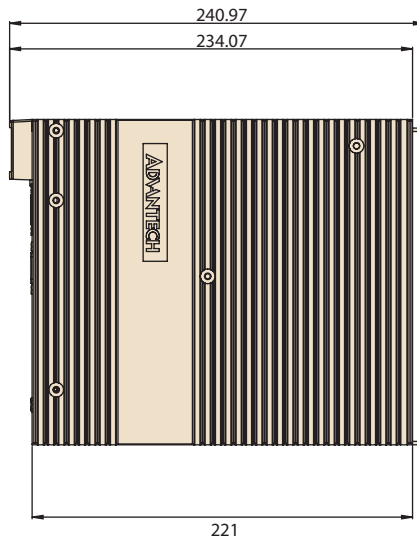
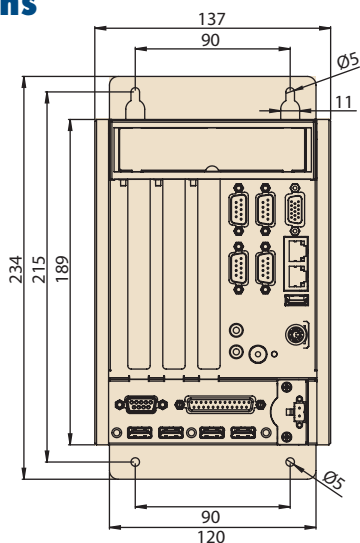
Features

- Sealed construction with fanless operation, supports Intel® Celeron® Processor J1900 up to 2.41 GHz
- Supports 2 Giga LAN and 1 USB 3.0 + 5 USB 2.0
- Support 4 RS-232/422/485 with Auto-flow control and COM 1 & 2 port with 5V/12V power
- Built-in 1 x PCIe, and 2 x PCI expansion slots or 3 x PCI expansion slots
- Support 4 RS-422/485 Isolation module type
- Rubber anti-vibration card-holder for PC expansion boards
- Supports wide power range of 9 ~ 30V DC input
- Support wide range operating Temperature of -20 ~ 60° C
- Supports SUSIAccess and Embedded Software APIs

Specifications

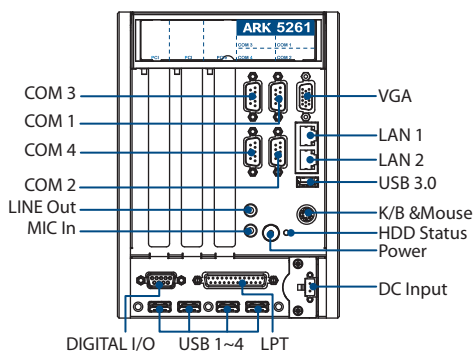
| | | | | |
|-------------------|------------------------------------|---|---|----------------------------|
| Processor System | CPU | Intel® Celeron® Processor J1900 2.0GHz | | |
| | Max. Speed | 2.41 GHz | | |
| | BIOS | AMI 16 Mbit SPI BIOS | | |
| Memory | Technology | Dual Channel DDR3L-1333 (Low power 1.35V) | | |
| | Max. Capacity | Build-in 4GB memory, up to 8GB | | |
| | Socket | 2x 204-pin SO-DIMM | | |
| Graphics | Chipset | Chipset integrated Intel HD Graphic | | |
| | VRAM | Shared System Memory up to 224 MB SDRAM | | |
| | Interface | VGA: 2560 x 1600 @ 60Hz | | |
| Ethernet | LAN1 | 10/100/1000 Mbps GigaLAN Controller, Intel I211, supports Wake on LAN | | |
| | LAN2 | 10/100/1000 Mbps GigaLAN Controller, Intel I211, supports Wake on LAN | | |
| Audio | Interface | Line-Out, Mic-in | | |
| IO Interface | Serial Ports | Standard Type: 4x RS-232/422/485, COM 1 & COM 2 with 5V/12V power, support Auto-flow control (ARK-5261S-JOA1E) Isolation type: 4x RS-422/485 ports; ESD Protection: 15Kv, Surge production: 2Kv, Electrical Isolation: 2Kv (ARK-5261I-JOA1E) | | |
| | USB Interface | 1 x USB 3.0, 4 x USB 2.0, 1 internal type A USB 2.0 | | |
| | Keyboard/Mouse | 1 x PS/2 port, supports PS/2 mouse and keyboard | | |
| | Parallel Port | Supports D-sub 25-pin connector | | |
| | Digital I/O | Supports 8-bit digital IO (DB9 Connector) | | |
| Other | Watchdog timer | 255-level timer interval, setup by software | | |
| Storage | HDD/SSD | Supports two drive bays space for SATA HDD/SSD 2.5 (9.5mm height only) | | |
| | mSATA | Support one mSATA storage and shard with SATA 2 | | |
| Expansion | PCI/PCIe Slot | 2 PCI Slot, and 1 PCIe Slot (ARK-5261S-JOA1E and ARK-5261I-JOA1E) | | |
| | | 3 PCI Slot, and 1 Mini-PCIe Socket (Full Size) (ARK-5261P-JOA1E) | | |
| | | Supports maximum 15W power for expansion Supports maximum dimension of 99 mm (width) x 186 mm (length) for expansion PC board | | |
| Software Support | Microsoft Windows | Windows 7/8.1, Win7/8.1 Embedded, Linux Fedora 19 | | |
| | Power Type | ATX / AT | | |
| | Power Input Voltage | 9 ~ 30 V _{DC} | | |
| | Minimum Power Input | 9V @ 6.6A ~ 30V @ 2A | | |
| Power Requirement | Power Adapter | AC-to-DC, 65 W DC19 V/3.4 A | | |
| | Idle | 9.9 W (with Intel® Celeron® Processor J1900 2.0GHz and with Memory & SATA HDD) | | |
| | Max. | 12.9 W (with Intel® Celeron® Processor J1900 2.0GHz and with Memory & SATA HDD) | | |
| Mechanical | Construction | Aluminum housing | | |
| | Mounting | Desk/wall-mounting | | |
| | Dimensions (W x H x D) | 137 x 189 x 221 mm (5.39" x 7.44" x 8.70") | | |
| | Weight | 4.2 kg (9.24 lbs) | | |
| Environment | Temperature | Operating (With Industry SSD) | Operating (With HDD) | Non-operating |
| | | -20 ~ 60° C with 0.7m/sec air flow (with 2 x Industrial SSD without PC expansion boards) | 0 ~ 40° C with 0.7m/sec air flow (with 1 x 2.5" HDD or mSATA without PC expansion boards) | - 40 ~ 85° C (-40 ~185° F) |
| | Storage Temperature | - 40 ~ 85° C (-40 ~185° F) | | |
| | Relative Humidity | 95% @ 40° C (non-condensing) | | |
| | Vibration Loading During Operation | With 2.5-inch HDD: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis With SSD disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis | | |
| | EMC | CE/FCC, CCC, BSMI | | |
| | Safety Certifications | CCC, BSMI | | |

Dimensions

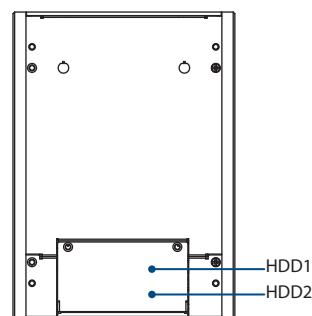


Unit: mm

Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

| Part Number | Description |
|----------------|---|
| - | 1x ARK-5261 Unit |
| 2061526100 | 1 x Driver/Utility CD/Manual |
| 2001526110 | Startup Manual (English/Simple Chinese) |
| 1960049826N001 | 1 x Mounting bracket upper |
| 1960049827N001 | 1 x Mounting bracket lower |
| 1990000505 | 3 x Shock proof rubber |

Optional Items

| Part Number | Description |
|-----------------|---|
| 1700021831-01 | DP to DVI-D cable w/BKT |
| PCA-TPM-00A1E | TPM Module |
| 96PSA-A120W24T2 | ADP A/D 100-240V 120W 24V |
| 96PSA-A60W24T2 | ADP A/D 100-240V 60W 24V |
| 1702002600 | Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D |
| 1700022940-01 | Power cord PSE 7A 125V 3P 3m DAC-ST01 |
| 1702002605 | Power cord 2P FRANCE 10A/16A 220V 1.83M 90D |

Ordering Information

| Part Number | Description |
|------------------------------------|---|
| ARK-5261S-J0A1E (Standard Module) | Intel Celeron J1900 2GHz with build-in 4GB memory, VGA, 2xGbE, 6xUSB ports, 4xCOM ports, audio, PCIe1 & 2xPCI, 9 ~ 30 V _{DC} power with 2pin Phoenix connector |
| ARK-5261I-J0A1E (Isolation Module) | Intel Celeron J1900 2GHz with build-in 4GB memory, VGA, 2xGbE, 6xUSB ports, 4x Isolation COM ports, audio, PCIe1 & 2xPCI, 9 ~ 30 V _{DC} power with 2pin Phoenix connector |
| ARK-5261P-J0A1E (3 x PCI Module) | Intel Celeron J1900 2GHz with build-in 4GB memory, VGA, 2xGbE, 6xUSB ports, 4xIsolation COM ports, audio, 3xPCI & Mini-PCIe, 9 ~ 30 V _{DC} power with 2pin Phoenix connector |

Embedded OS

| Part Number | Description |
|-------------|--|
| 2070013108 | img WE8S ARK-5261 x64 V6.5.2 10MUI; SAP |
| 2070013109 | img WES7P ARK-5261 x64 V5.6.6 10MUI ;SAP |

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[BXNUC10i5FNHJA1](#) [BXNUC10i5FNHCA1](#) [BXNUC10i7FNKP6](#) [BXNUC10i7FNHJA](#) [BXNUC10i7FNHAA1](#) [BXNUC9i5QNX](#)
[BXNUC9i5QNX1](#) [BKNUC9V7QNX](#)