## ARK-5261

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

### 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 SD-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-J0A1E)  
- **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**: Support 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 day 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-J0A1E & ARK-5261I-J0A1E)
  3 PCI Slot, and 1 Mini-PCIe Socket (Full Size) (ARK-5261P-J0A1E)
- **Supports maximum 15W power for expansion**
- **Supports maximum dimension of 99 mm (width) x 186 mm (length) for expansion PC board**

#### Software Support

#### Power Requirement
- **Power Type**: ATX / AT
- **Power Input Voltage**: 9 ~ 30 V
- **Minimum Power Input**: 9V @ 6.6A – 30V @ 2A
- **Power Adaptor**: AC-to-DC, 65 W DC19 V/3.4 A

#### Power Consumption
- **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) -20 ~ 60° C with 0.7ms/air flow (with 2 x industrial SSD without PC expansion boards)  
  Operating (With HDD) 0 ~ 40° C with 0.7ms/air flow (with 1 x 2.5” HDD or mSATA without PC expansion boards)  
  Non-operating - 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 Gms, IEC 60068-2-64, random, 5 – 500 Hz, 1 Oct./min, 1 hr/axis
  With SSD disk: 5 Gms, IEC 60068-2-64, random, 5 – 500 Hz, 1 Oct./min, 1 hr/axis
- **EMC**: CE/FCC, CCC, BSMI
- **Safety Certifications**: CCC, BSMI

All product specifications are subject to change without notice. Last updated: 30-Sep-2015
**Dimensions**

Unit: mm

**Ordering Information**

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<tr>
<th>Part Number</th>
<th>VGA</th>
<th>USB3.0/2.0</th>
<th>GbE</th>
<th>RS-232</th>
<th>RS-422/485</th>
<th>PS/2</th>
<th>PCIe Exp</th>
<th>PCI Exp</th>
<th>Power</th>
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<tbody>
<tr>
<td>ARK-5261S-J0A1E</td>
<td>1</td>
<td>1 +5</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1(x1)</td>
<td>2</td>
<td>DC9 – 30V</td>
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<tr>
<td>ARK-5261P-J0A1E</td>
<td>1</td>
<td>1 +4</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>x (Mini-PCIe)</td>
<td>3</td>
<td>DC9 – 30V</td>
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<tr>
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<td>1 +5</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1(x1)</td>
<td>2</td>
<td>DC9 – 30V</td>
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**Optional Items**

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>170001831-01</td>
<td>DP to DVI-D cable w/BKT</td>
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<tr>
<td>1702002603</td>
<td>TPM Module</td>
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<td>96PSA-A120W24T2</td>
<td>ADP A/D 100-240V 120W 24V</td>
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<td>1700022940-01</td>
<td>Power cord PSE 7A 125V 3Pin DAC-ST01 (for 120W)</td>
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<td>1701000515</td>
<td>Power cord 2P FRANCE 10A/16A 220V 1.83M 90D (for 120W)</td>
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<td>170203183C</td>
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**Packing List**

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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>2061526100</td>
<td>1 x ARK-5261 Unit</td>
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<tr>
<td>2001526110</td>
<td>1 x Driver/Utility CD/Manual</td>
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<tr>
<td>1960049826N001</td>
<td>Startup Manual (English/Simple Chinese)</td>
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<td>1960049827N001</td>
<td>1 x Mounting bracket upper</td>
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<tr>
<td>1990000505</td>
<td>1 x Mounting bracket lower</td>
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<tr>
<td>2001526120</td>
<td>Startup Manual (CHT)</td>
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<tr>
<td>1990000505</td>
<td>3 x Shock proof rubber</td>
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<tr>
<td>2061526110</td>
<td>1 x Driver/Utility CD/Manual</td>
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**Embedded OS**

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<td>2070013108</td>
<td>img WES ARK-5261 x64 V6.5.2 10MUI, SAP</td>
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<tr>
<td>2070013109</td>
<td>img WES7P ARK-5261 x64 V5.6.10MUI, SAP</td>
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