

# J3160DC-ITX

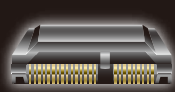
Intel® Quad-Core Processor J3160 + Mini-ITX Motherboard

ASRock



## Product Brief

- ASRock Super Alloy
- Intel® Quad-Core Processor J3160
- Solid Capacitor design
- Supports Dual Channel DDR3/DDR3L SO-DIMM 1600
- 1 PCIe 2.0 x1, 1 Half-Size Mini-PCIe
- Graphics Output Options : DisplayPort, DVI-D, HDMI
- 7.1 CH HD Audio (Realtek ALC892 Audio Codec), ELNA Audio Caps
- 4 SATA3
- 6 USB 3.0 (2 Front, 4 Rear)
- Supports Full Spike Protection, ASRock Live Update & APP Shop



SUPPORTS UP TO 48CH H.265 IP CAMERAS HEVC (H.265) Decoding + 4K

Triple Monitor

Half-Size Mini-PCIe

## Detail Specification

Platform	- Mini-ITX Form Factor - Solid Capacitor design
Unique Feature	ASRock Super Alloy - High Density Glass Fabric PCB ASRock Full Spike Protection ASRock Live Update & APP Shop
CPU	- Intel® Quad-Core Processor J3160 (up to 2.24 GHz)
Memory	- Dual Channel DDR3/DDR3L Memory Technology - 2 x DDR3/DDR3L SO-DIMM Slots - Supports DDR3/DDR3L 1600/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB * If only one SO-DIMM module is installed, please install it into DDR3_A1.
Expansion Slot	- 1 x PCI Express 2.0 x1 Slot - 1 x Half-size Mini-PCI Express Slot * Due to the power limitation and PCIe bandwidth (x1) VGA cards are not supported.
Graphics	- Integrated Intel® HD Graphics 400: 12 EUs inside (Up to 700MHz) - DirectX 11.1, Pixel Shader 5.0 - Three graphics output options: DVI-D, HDMI and DisplayPort 1.1a - Supports Triple Monitor - Supports HDMI with max. resolution up to 4K x 2K (3840x2160) @ 30Hz or 2560x1600 @ 60Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz - Supports DisplayPort 1.1a with max. resolution up to 4K x 2K (3840x2160) @ 30Hz or 2560x1600 @ 60Hz - Supports Auto Lip Sync, xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HW Accelerated Decoders: H.264 @ level 5.2, H.265/HEVC @ level 5 (GPU accelerated), JPEG, VP8 - Supports HDCP with DVI-D, HDMI and DisplayPort 1.1a Ports - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D, HDMI and DisplayPort 1.1a Ports
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection) - ELNA Audio Caps
LAN	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Supports Wake-On-WAN - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x DC Jack (Compatible with the 19V power adapter) - 1 x PS/2 Mouse/Keyboard Port - 1 x DVI-D Port - 1 x HDMI Port - 1 x DisplayPort 1.1a - 2 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 4 x USB 3.0 Ports (ASMedia ASM1074 hub) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone

Storage	- 2 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug - 2 x SATA3 6.0 Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug														
Connector	- 1 x Print Port Header - 1 x COM Port Header - 1 x TPM Header - 1 x Chassis Intrusion Header - 1 x CPU Fan Connector (3-pin) - 1 x Chassis Fan Connector (3-pin) - 2 x SATA Power Connectors - 1 x Front Panel Audio Connector - 1 x SPDIF Out Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) * USB3_3_4 is shared with USB_5_6.														
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports Plug and Play - ACPI 5.0 compliant wake up events - Supports jumperfree - SMBIOS 2.7 support														
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar														
Software and UEFI	<table border="0"> <tr> <td>Software</td> <td>UEFI</td> </tr> <tr> <td>- ASRock Power Gear</td> <td>- ASRock Power Gear</td> </tr> <tr> <td>- ASRock Disk Health Report</td> <td>- ASRock Instant Flash</td> </tr> <tr> <td>- ASRock USB Key</td> <td>- ASRock Internet Flash</td> </tr> <tr> <td>- ASRock XFast LAN</td> <td>- ASRock Crashless BIOS</td> </tr> <tr> <td>- ASRock XFast RAM</td> <td></td> </tr> <tr> <td>- ASRock Fast Boot (Fast Boot, Restart to UEFI)</td> <td></td> </tr> </table> <p>* These utilities can be downloaded from ASRock Live Update &amp; APP Shop.</p>	Software	UEFI	- ASRock Power Gear	- ASRock Power Gear	- ASRock Disk Health Report	- ASRock Instant Flash	- ASRock USB Key	- ASRock Internet Flash	- ASRock XFast LAN	- ASRock Crashless BIOS	- ASRock XFast RAM		- ASRock Fast Boot (Fast Boot, Restart to UEFI)	
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Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore														
OS	- Microsoft® Windows® 10 32-bit / 10 64-bit / 8.1 32-bit / 8.1 64-bit / 7 32-bit / 7 64-bit * To install Windows® 7 64-bit OS, a modified installation disk with xHCI drivers packed into the ISO file is required. Please check our User Manual for more detailed instructions. * For the updated Windows® 10 driver, please visit ASRock's website for details: <a href="http://www.asrock.com">http://www.asrock.com</a> - Linux: Ubuntu 14.04.3 LTS / Ubuntu 15.04 / Ubuntu 15.10 / Fedora 23 / Zorin OS 10 / Arch Linux 2015.10.01 / clonezilla-live-20150915-wily-amd64 / Android-x86-4.4-r3														
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)														
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables - 2 x SATA Power Cables - 1 x WIFI Module Screw - 1 x 65W DC-in 19V 3.42A Power Adapter														

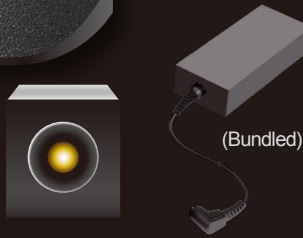
# J3160DC-ITX

Intel® Quad-Core Processor J3160 + Mini-ITX Motherboard

ASRock

## DC-In Jack

Compatible with 19V power adapters. This unique design allows this motherboard to fit in compact chassis.



## Supports Up to 48CH H.265 IP Cameras

Able to work as an industrial grade 48 channel NVR (Networking Video Recorder) system, and also capable of HEVC (H.265) recording for up to 48 IP cameras in D1 (704x576) resolution.



## HEVC (H.265) Decoding + 4K

Supports HEVC (H.265) decoding and a minimum of 3840 x 2160 pixels with 4K resolution.



## Triple Monitor

Choose up to three display interfaces to connect monitors and use them simultaneously.



## Power Gear

Toggle between three operational modes to maximize performance or conserve energy.



## ELNA Audio Caps

The 3uA leakage current reduces noise levels.



## Solid Capacitor Design

Brings more stable performance and ensures a longer lifespan.



## Full Spike Protection

Prevents your motherboard's components (USB, LAN, audio) from being damaged by voltage spikes.



Stable and Reliable

## High Density Glass Fabric PCB

Protects the motherboard against electrical shorts caused by humidity.

## Intel® Quad-Core Processor J3160 (Up to 2.24 GHz)

Improved performance, lower power consumption, and new multimedia capabilities.

## Supports Standard & Low Voltage SO-DIMMs

Capable of supporting both standard and low voltage SO-DIMMs.

## 16GB Memory Support

Each slot supports 8GB memory modules, thus delivering a maximum capacity up to 16GB.

## Half-Size Mini PCIe

A convenient interface that can be used for connecting WiFi cards.

