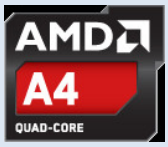
A68N-5100 Motherboard

- On board AMD Fusion APU A4-5100 Quad-Core processor
- AMD Radeon HD8330 Graphics
- Supports USB 3.0
- Mini size (17*17cm) for flexible use
- Supports Charger Booster Technology

Specifcation	
CPU	AMD Fusion APU A4-5100 Quad-Core Processor
MEMORY	Support DDR3 / DDR3L 1600/1333/1066/800 MHz 2 x DDR3 DIMM Memory Slot Max. Supports up to 16GB Memory
INTEGRATED VIDEO	AMD Radeon™ HD8330 Graphics, On Board Graphic Max. Memory Share Up to 2GB Supports DX11.1 Supports HDCP
STORAGE	2 x SATA III Connector
LAN	Realtek RTL8111G - 10/100/1000Mb/s Controller
AUDIO CODEC	Realtek ALC662 6-Channel HD Audio
USB	2 x USB 3.0 Port 2 x USB 2.0 Port 2 x USB 2.0 Header
EXPANSION SLOT	1 x PCI-E 2.0 x16 Slot(x4)
REAR I/O	1 x PS/2 Mouse 1 x PS/2 Keyboard 2 x USB 3.0 Port 2 x USB 2.0 Port 1 x HDMI Connector, resolution up to 4096 x 2160 @24Hz, compliant with HDMI 1.4a 1 x VGA Port 1 x LAN Port 3 x Audio Jacks

INTERNAL I/O	2 x USB 2.0 Header 2 x SATA III Connector (6Gb/s) 1 x Front Audio Header 1 x Front Panel Header 1 x S/PDIF-Out Header 1 x CPU Fan Connector 1 x System Fan Connector 1 x COM Port Header 1 x Printer Port Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control System Voltage Monitoring
DIMENSION	Mini ITX Form Factor Dimension: 17cm x 17cm (W x L)
OS SUPPORT	Supports Windows XP / 7 / 8 / 8.1 / 10(x64)
BUNDLE SOFTWARE	BullGuard Smart Speed LAN
ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide
FEATURES	Supports Solid capacitor BIO-FLASHER Supports Charger Booster Supports BIOS Online Update

OVERVIEW



AMD Fusion APU A4-5100 Quad-Core Processor

This motherboard supports integrated AMD Quad-Core Processor A4-5100 with AMD Radeon™ HD 8330 Graphics. This revolutionary APU (Accelerated Processing Unit) combines processing power and advanced DirectX 12 graphics in one small, energy-efficient design to enable accelerated performance and an industry-leading visual experience. It features single-channel DDR3 1600 memory support and accelerates data transfer rate up to 2.5GT/s.

HD Audio

Provides high quality sound with minimal loss of audio fidelity.

DX12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.

USB 3.0

Experience Fastest data transfers at 5 Gbps with USB 3.0--the new latest connectivity standard. Built to connect easily with next-generation components and peripherals, USB 3.0 transfers data 10X faster and backward compatible with previous USB 2.0 components.

	Moistureproof of PCB The popularity of PC usage and working environment is getting deteriorating and moist (rural, coastal, etc.). The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moisture-proof PCB meets high density and high reliability requirements for moisture proof.
	Low RdsOn P-Pak MOS Low resistance design can significantly reduce the current out of energy loss. Low temperature, small size, excellent thermal conductivity.
	Super Anti-Surge Protection BIOSTAR exclusive Anti-Surge design provides the best protection of board and extends the product life. Having the latest model of "Transient Voltage Suppressor" on- board can effectively protect the board circuit, reducing the shocks caused by ESD as well as other damages arising from overvoltage transients to enhance system durability.
	ESD Protection ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.
	OC / OV / OH Protection OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.
	Header Zone Users can easily assemble their own computer, a simple-swap data discs and other accessories.

*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!