

## A10N-9830E Motherboard



- AMD FX-9830P Processor
- Supports AMD Radeon™ R7 Graphics
- Supports 2 DIMM of DDR4 2133 / 2400 MHz up to 32GB maximum capacity
- Supports M.2 M Key (16Gb/s) Connector
- Supports USB 3.2 Gen1
- Support HDMI® 4K resolution

### Specification

|                  |                                                                                                                                                                                                                                                                                    |
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| CPU SUPPORT      | AMD® FX-9830P Processor<br>(Quad core 3.0GHz up to 3.7GHz)                                                                                                                                                                                                                         |
| MEMORY           | Support Dual Channel DDR4 2133 / 2400 MHz<br>2 x DDR4 DIMM Memory Slot<br>Max. Supports up to 32GB Memory<br>Each DIMM supports non-ECC 512MB/ 1/ 2/ 4/ 8/ 16GB DDR4 module<br>*Please refer to <a href="http://www.biostar.com.tw">www.biostar.com.tw</a> for Memory support list |
| INTEGRATED VIDEO | AMD Radeon™ R7 Graphics<br>Supports HDCP                                                                                                                                                                                                                                           |
| STORAGE          | 2 x SATA III Connector (6Gb/s)<br>1 x M.2 (M Key) 16Gb/s Connector<br>support PCI-E 3.0 x2 (16Gb/s) & SATA III (6Gb/s)SSD<br>*When PCIE-M2_1 slot is occupied, the SATA2 connector will be disabled                                                                                |
| LAN              | Realtek RTL8111H - 10/100/1000Mb/s Controller<br>Support Super LAN Surge Protection                                                                                                                                                                                                |
| AUDIO CODEC      | ALC887 7.1 Channels, High Definition Audio                                                                                                                                                                                                                                         |
| USB              | 4 x USB 3.2 Gen1 Ports (2 on rear I/Os and 2 via internal headers)<br>4 x USB 2.0 Ports (2 on rear I/Os and 2 via internal headers)                                                                                                                                                |
| EXPANSION SLOT   | 1 x PCI-E 3.0 x16 Slot(x4)                                                                                                                                                                                                                                                         |
| REAR I/O         | 1 x PS/2 Mouse<br>1 x PS/2 Keyboard<br>2 x USB 3.2 Gen1 Ports<br>2 x USB 2.0 Port<br>1 x HDMI® Port<br>1 x VGA Port<br>1 x LAN Port<br>3 x Audio Jacks                                                                                                                             |

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| INTERNAL I/O    | 1 x USB 3.2 Gen1 Header (each header supports 2 USB 3.2 Gen1 ports)<br>1 x USB 2.0 Header (each header supports 2 USB 2.0 ports)<br>2 x SATA III Connectors (6Gb/s)<br>1 x Front Audio Header<br>1 x Front Panel Header<br>1 x CPU Fan Connector<br>1 x System Fan Connector<br>1 x Serial Port Header<br>1 x 4-Pin Power Connector<br>1 x 24-Pin Power Connector<br>1 x Clear CMOS Header |
| H/W MONITORING  | CPU / System Temperature Monitoring<br>CPU / System Fan Monitoring<br>Smart / Manual CPU Fan Control<br>System Voltage Monitoring                                                                                                                                                                                                                                                          |
| DIMENSION       | Mini ITX Form Factor Dimension: 17 cm x 17 cm ( W x L )                                                                                                                                                                                                                                                                                                                                    |
| OS SUPPORT      | Supports Windows 7(32/64bit) / 10(64bit)<br>※BIOSTAR reserves the right to add or remove support for any OS with or without notice.                                                                                                                                                                                                                                                        |
| BUNDLE SOFTWARE | BullGuard<br>Smart Speed LAN                                                                                                                                                                                                                                                                                                                                                               |
| ACCESSORIES     | 2 x SATA Cable<br>1 x I/O Shield<br>1 x DVD Driver<br>1 x Quick Guide                                                                                                                                                                                                                                                                                                                      |
| FEATURES        | Supports 100% Solid capacitor                                                                                                                                                                                                                                                                                                                                                              |

## OVERVIEW

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|  | <b>AMD FX-9830P Quad-Core APU</b><br>The FX-9830P packs a powerful Bristol Ridge architecture-based quad-core processor with an integrated AMD Radeon R7 Graphics for superb processing performance, power efficiency and game-ready graphics.                                                                                                             |
|  | <b>HD Audio</b><br>Provides high quality sound with minimal loss of audio fidelity.                                                                                                                                                                                                                                                                        |
|  | <b>HDMI® 4K2K</b><br>The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI® cable for displaying 4K2K data.                               |
|  | <b>DX12</b><br>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. |

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|     | <h3>PCIe M.2 16Gb/s</h3> <p>PCIe M.2 16Gb/s delivers the highest bandwidth and lower latency. Its 1.6 times faster compared with PCIe M.2 10Gb/s.</p>                                                                                                                                                                                                                                                                                                           |
|    | <h3>SATAIII 6Gbps</h3> <p>SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.</p>                                                                                                                                                                                                                                    |
|    | <h3>Dual DDR4</h3> <p>The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.</p>                                                                                                                                                                                                                                                                                          |
|    | <h3>USB 3.2 Gen1 Type-A</h3> <p>USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.</p>                                                                                                                                                                          |
|  | <h3>Moistureproof of PCB</h3> <p>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.</p>                                                                        |
|  | <h3>100% Solid Caps</h3> <p>With armor-plated Biostar Technology, all capacitors are placed with 100% solid capacitors that have a lasting life cycle, durability and stability for crucial components.</p>                                                                                                                                                                                                                                                     |
|  | <h3>Super LAN Surge Protection</h3> <p>Super LAN Surge Protection, providing LAN port with more advanced antistatic protection capabilities by adding an integrated chip to strengthen electrical stability and prevent damage from lightning strikes and electrical surges. SLSP (Super LAN Surge Protection) series motherboard upgrades the existing system protection standards with maximum 4X protection comparing to other board makers.</p>             |
|  | <h3>BullGuard Internet Security (90 days FREE trial)</h3> <p>BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!</p> |
|  | <h3>UEFI BIOS</h3> <p>Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.</p>                                                                                                                                                         |



## BIO-Flasher

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.



## HDMI®

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

