



1. Intel® Celeron™ J1900 (2.0 GHz) quad-core processor
2. Support DirectX 11 3D Graphics Acceleration
3. Support DDR3L 1333
4. Integrated HD Audio CODEC
5. Support 2\*PCI Express Gigabit LAN
6. Support Power Onboard(12V)
7. Onboard 1\* MiniPCI-E connector
8. Onboard 1\* M.2 connector(2242/2260)
9. 2 Phase CPU Power Support
10. Support 1\* USB3.0, 9\* USB2.0
11. Support 12\* COM(COM1/2 Support RS232/422/485)
12. Support Amplifier function(3W)
13. Support Thunder Protection Function
14. Thin mini ITX Form Factor(170mm X170mm)

## Mainboard Specifications

■ CPU-Chipset	<ul style="list-style-type: none"> <li>■ INTEL® Celeron™ J1900 (2.0 GHz) quad-core processor</li> <li>■ 2 Phase CPU Power Support</li> </ul>
■ I.O Chipset	<ul style="list-style-type: none"> <li>■ FINTEK F81866AD-I</li> </ul>
■ Memory	<ul style="list-style-type: none"> <li>■ 1*SO-DIMM slot</li> <li>■ Support DDR3L 1333</li> <li>■ Max. capacity of system memory up to 8GB</li> </ul>
■ Expansion Slots	<ul style="list-style-type: none"> <li>■ 1* Mini PCI-E connector</li> </ul>
■ Storage	<ul style="list-style-type: none"> <li>■ 1* Serial ATA2 3Gb/s connector</li> <li>■ 1* M.2 Connector(2242/2260)</li> </ul>
■ Audio	<ul style="list-style-type: none"> <li>■ ALC662 Audio CODEC</li> <li>■ HD Audio CODEC</li> </ul>
■ Ethernet LAN	<ul style="list-style-type: none"> <li>■ REALTEK® RTL8111G Chip</li> <li>■ 2* PCI Express Gigabit LAN</li> </ul>
■ LVDS	<ul style="list-style-type: none"> <li>■ Onboard 24-bit Dual channel(Co-Lay EDP)</li> </ul>
■ USB	<ul style="list-style-type: none"> <li>■ 1* USB3.0 Port</li> <li>■ 9* USB 2.0 (3 distribute in back panel, 6 distribute in mid-board)</li> </ul>
■ Special Features	<ul style="list-style-type: none"> <li>■ Support CPU Smart Fan</li> <li>■ Support Watch dog Technology</li> <li>■ Support GPIO Technology</li> <li>■ Support VGA header</li> <li>■ Support HDIM header</li> <li>■ Support Power On board</li> <li>■ Support Amplifier function(3W)</li> <li>■ Support 2*RS422/RS485/RS232 COM ports</li> </ul>

	<ul style="list-style-type: none"> <li>■ COM1/COM2 Support 5V/12V TTL</li> <li>■ Thunder Protection Function</li> <li>■ All Solid Capacitor design</li> <li>■ All Power Pack MOSFET design</li> </ul>
■ <b>Back Panel I / O</b>	<ul style="list-style-type: none"> <li>■ 1* USB3.0 port</li> <li>■ 3* USB 2.0 ports</li> <li>■ 2* RJ-45 ports</li> <li>■ 1* Line-out connector</li> <li>■ 1* MIC</li> <li>■ 1* VGA port (Max. Resolution: 1920*1200@60Hz)</li> <li>■ 1* 12V DC in</li> </ul>
■ <b>Internal I / O</b>	<ul style="list-style-type: none"> <li>■ 3* USB 2.0 headers for 6 USB 2.0 ports</li> <li>■ 1* CPU / Chassis Fan connectors</li> <li>■ 12* COM headers(COM1/COM2 For RS422/RS485/RS232 and TTL )</li> <li>■ 1* Parallel header</li> <li>■ 1* PS2/KB header</li> <li>■ 1* 4-pin ATX 12V Power connector</li> <li>■ 1* 4-pin SATA Power connector</li> <li>■ 1* 12-pin VGA header (Max. Resolution: 1920*1200@60Hz)</li> <li>■ 1* 20-pin HDMI header (Max. Resolution: 1920*1200@60Hz)</li> <li>■ 1* 24-bit Dual Channel LVDS header (Max. Resolution: 1920*1200@60Hz)</li> <li>■ 1* GPIO header</li> <li>■ 1* Mini PCI-e connector</li> <li>■ 1* M.2 Connector(2242/2260)</li> <li>■ 1* SATA Connector</li> <li>■ 1* Speaker header(Amplifier function 3W)</li> <li>■ 1* Front panel header</li> <li>■ 1* SIM Card socket</li> </ul>
■ <b>BIOS</b>	<ul style="list-style-type: none"> <li>■ AMI 64MB SPI ROM</li> </ul>
■ <b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operating: 0°C ~ 60°C</li> <li>■ Storage: -20°C ~ 85°C</li> </ul>
■ <b>Form Factor</b>	<ul style="list-style-type: none"> <li>■ Thin mini ITX Form Factor(170mm X 170mm)</li> </ul>
■ <b>Accessory</b>	<ul style="list-style-type: none"> <li>■ SATA Cable</li> <li>■ SATA Power cord</li> <li>■ COM Cable</li> <li>■ I/O Shield</li> </ul>
■ <b>OS Support</b>	<ul style="list-style-type: none"> <li>■ Windows 7 (32/64-bit), Windows 8.1 (32/64-bit), Windows 10 (32/64 Bit)</li> <li>■ Widows Server2012R2. Windows Server 2016, Windows Server 2019</li> <li>■ Linux: Cent OS, Debian, Fedora, OpenSUSE, Ubuntu, pfSence, FreeNAS, RedHat</li> </ul>