



999.00 EUR  
incl. 19% VAT, plus [shipping](#)

- 2x Gigabit LAN !
- 10x USB !
- 3x COM !

**Support:** [Specifications](#)

Thin Mini-ITX Embedded Motherboard with Intel® Celeron® N4500 Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 10 x USB

- Thin Mini-ITX form factor
- Intel® Celeron® N4500 Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- HDMI, eDP/LVDS ports for Multiple Display
- Realtek® Audio Codec
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 3 x COM Ports (RS-232/422/485)

|             |  |
|-------------|--|
| Form Factor | Thin Mini-ITX<br>170W x 170D(mm)   |
| CPU         | Intel® Celeron® N4500 Processor<br>10nm, 2 cores, 2 threads, up to 2.80 GHz<br>TDP 6W              |
| Socket      | 1x FCBGA1338   |
| Memory      | 2 x DDR4 SO-DIMM sockets, Max. Capacity 16 GB<br>Support Dual channel DDR4 2933 MHz memory modules |
| Ethernet    | 2 x GbE LAN Ports (Realtek® RTL8118-CG)  |

|                      |  |
|----------------------|--|
| Video                | Integrated Graphics Processor - Intel® UHD Graphics:<br>2 x HDMI 2.0 port, supporting a maximum resolution of 3840x2160 @60Hz<br>1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz<br>1 x eDP port, supporting a maximum resolution of 4096x2160 @60Hz<br><br>(3 independent display outputs)  |
| Audio                | Realtek Audio Codec  |
| Storage              | 1 x SATA 6Gb/s Port  |
| Expansion Slots      | 1 x PCIe x1 (Gen3 x1)<br>1 x 2280 M.2 M-Key (SATA 6Gb/s)<br>1 x 2230 M.2 E-Key   |
| Internal I/O         | 1 x 4-pin ATX main power connector<br>1 x ATX Control header (For Standard ATX PSU use)<br>1 x SATA power connector<br>1 x System fan header<br>1 x Front panel header<br>1 x Front panel audio header<br>1 x 2W Speaker out header<br>6 x USB 2.0 headers<br>1 x COM header (RS-232/422/485 & RI/5V/12V)<br>3 x COM headers (RS-232)<br>1 x GPIO (8 bits) & SMBus header<br>1 x Backlight Control header<br>1 x AT/ATX mode select jumper |
| Rear I/O             | 2 x Audio Jacks (Line out, Mic in)<br>2 x HDMI<br>2 x RJ45 LAN Ports<br>4 x USB 3.2 Gen 1<br>1 x DC Jack (+12V~24VDC)  |
| OS Compatibility     | Windows 10 (x64)   |
| Operating Properties | Operating temperature: 0°C to 60°C<br>Operating humidity: 0-90% (non-condensing)<br>Non-operating temperature: -40°C to 85°C<br>Non-operating humidity: 0%-95% (non-condensing)  |
| Packing Content      | Capacity: 10pcs<br>Carton size: 465 x 351 x 217(mm)<br>Content:<br>IO Shield x 1 (P/N: 12AIO-MJPLN0-00R)<br>SATA Power cable x 2 (P/N: 25CRI-300B01-K1R)   |