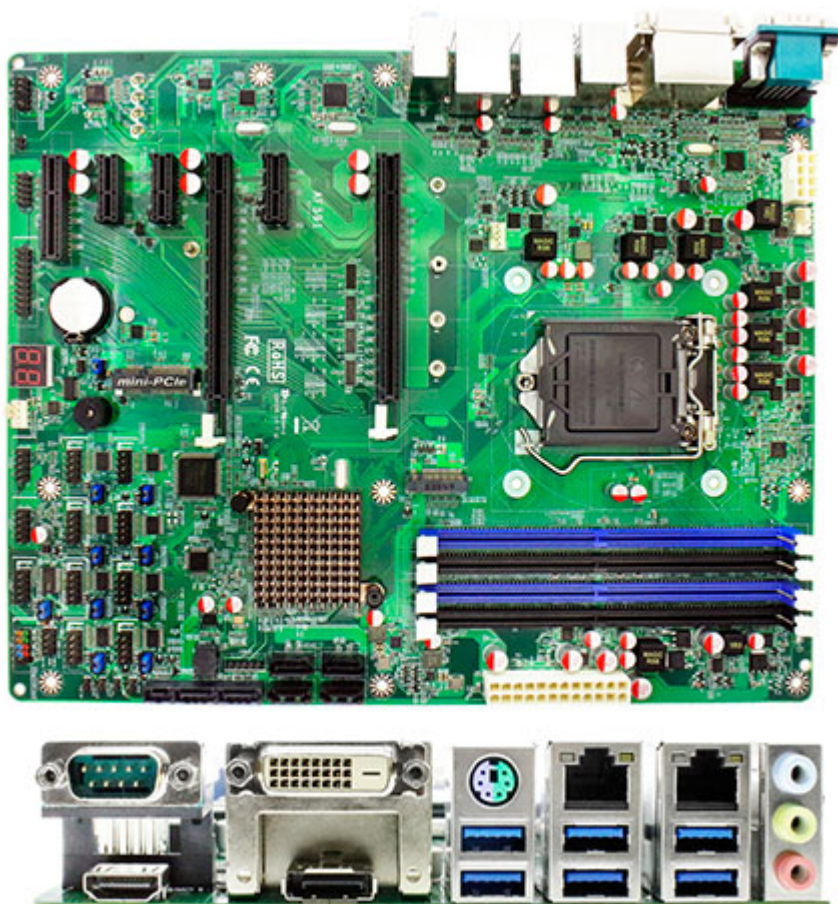




349.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Intel® Q170 Express Chipset
- Supports Intel LGA 1151 Socket Core™ i3, i5, i7 & Pentium Processors
- Support 4 \* 288 pin 2133MHz Dual CH DDR4 SDRAM U-DIMM Max. up to 64GB
- Intel i219LM & i211AT Gigabit LAN
- Support Intel vPro, Active Management Technology ( iAMT 11.0)
- Support TPM 2.0 function
- Support CPU Smart FAN
- Supports ACPI S3 Function
- Support Watch dog Technology
- ATX form factor ■ 305mm \* 244mm ■

| Form Factor      |                                                               |
|------------------|---------------------------------------------------------------|
| Dimensions       | - ATX form factor ■ 305mm * 244mm ■                           |
| Processor System |                                                               |
| CPU              | - Intel LGA 1151 Socket Core™ i3, i5, i7 & Pentium Processors |
| Core Number      | - (by CPU)                                                    |
| Max Speed        | - (by CPU)                                                    |
| L2 Cache         | - (by CPU)                                                    |
| Chipset          | - Intel®Q170 Express chipset                                  |
| BIOS             | - AMI 128Mb SMT Flash ROM                                     |
| Expansion Slot   |                                                               |
| PCI              | - 0                                                           |
| Mini-PCle        | - 1 (full size)                                               |
| mSATA            | - 0                                                           |

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| PCIe                      | - 6 [1 x16, 1 x8(shared with x16), 1 x4, 3 x1]                            |
| M.2                       | - 1 [PCIe x4 M-key, 2242/2260/2280/22110 shared with SATA1(ME FW option)] |
| CF Card Socket            | - 0                                                                       |
| <b>Memory</b>             |                                                                           |
| Technology                | - 4 * DDR4 2133MHz Dual CH                                                |
| Max.                      | - 64GB                                                                    |
| Socket                    | - 4 * U-DIMM                                                              |
| <b>Graphics</b>           |                                                                           |
| Controller                | - (by CPU)                                                                |
| VRAM                      | - Shared Memory                                                           |
| VGA                       | - 0                                                                       |
| LVDS                      | - 0                                                                       |
| HDMI 2.0                  | - 1 (Max. resolution 4096*2160@60Hz)                                      |
| DVI-D                     | - 1 (Max. resolution 1920*1080)                                           |
| DisplayPort 1.2           | - 1 (Max. resolution 4096*2304@60Hz)                                      |
| MultiDisplay              | - Yes (Triple Display)                                                    |
| <b>Ethernet</b>           |                                                                           |
| Ethernet                  | - 10/100/1000 Mbps                                                        |
| Controller                | - GbE LAN: Intel i219LM & i211AT                                          |
| Connector                 | - 2 * RJ 45                                                               |
| <b>SATA</b>               |                                                                           |
| Max Data Transfer Rate    | - 4 * SATAIII (6.0Gb/s), 1 * SATA Express Supports RAID 0/1/5/10          |
| <b>Rear I/O</b>           |                                                                           |
| VGA                       | - 0                                                                       |
| DVI-D                     | - 1                                                                       |
| HDMI                      | - 1                                                                       |
| DisplayPort               | - 1                                                                       |
| Ethernet                  | - 2                                                                       |
| USB                       | - 6 (6 * USB 3.0)                                                         |
| Audio                     | - 1 (Line-in / MIC / Line-out)                                            |
| Serial                    | - 1 (RS232/422/485 with 5V/12V selectable header)                         |
| eSATA                     | - 0                                                                       |
| PS2                       | - 1                                                                       |
| DC-input                  | - 0                                                                       |
| <b>Internal Connector</b> |                                                                           |
| USB                       | - 4 ( 4 * USB 2.0)                                                        |
| PS2                       | - 0                                                                       |
| LVDS / inverter           | - 0                                                                       |
| VGA                       | - 0                                                                       |
| Serial                    | - 9 (COM2 RS232/422/485, COM3~10 RS232 with 5V/12V selectable header)     |
| SATA                      | - 4 * SATAIII (6.0Gb/s), 1 * SATA Express                                 |
| mPCIe                     | - 1 (full size)                                                           |
| Parallel                  | - 0                                                                       |

|                           |                                                                           |
|---------------------------|---------------------------------------------------------------------------|
| M.2                       | - 1 [PCIe x4 M-key, 2242/2260/2280/22110 shared with SATA1(ME FW option)] |
| CIR                       | - 0                                                                       |
| TPM Header                | - 1                                                                       |
| GPIO 8-bit                | - 4in / 4 out                                                             |
| Chassis intrusion         | - 1                                                                       |
| Audio Header              | - 1                                                                       |
| <b>Watchdog Timer</b>     |                                                                           |
| Output                    | - From Super I/O to drag RESETCON#                                        |
| Interval                  | - 256 segments, 0,1,2...255sec/min                                        |
| <b>Power Requirements</b> |                                                                           |
| Input PWR                 | - 24-pin/8-pin ATX PWR Con                                                |
| Power On                  | AT/ATX Supported<br>- ATX: Press Button to PWR on after Power input ready |
| <b>Certifications</b>     |                                                                           |
| Certifications            | - CE, FCC, RoHS, REACH                                                    |
| <b>Environment</b>        |                                                                           |
| Temperature               | - Operating: 0°C – 60°C                                                   |
|                           | - Storage: -20°C – 85°C                                                   |