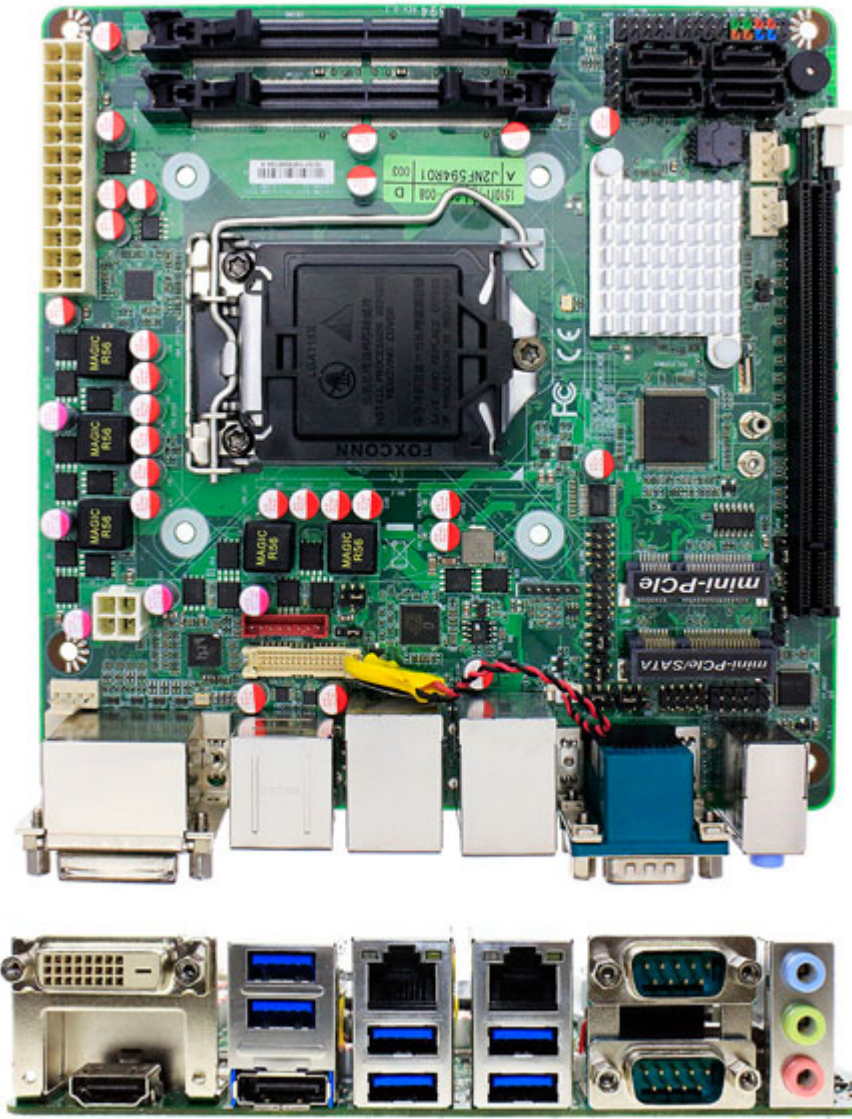




319.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Intel® Q170 Express Chipset
- Supports Intel LGA 1151 Socket Core™ i3, i5, i7 & Pentium Processors
- 2 \* Dual Channel DDR4 2133MHz up to 32GB
- 2\* GbE LAN (Intel i211AT & i219LM)
- Support Intel vPro, Active Management Technology (iAMT 11.0)
- Integrated Realtek ALC662VD Audio CODEC 6-CH
- Support 1\*PCIe x16 slot
- Support 4 \* SATAIII (6.0Gb/s), Support RAID 0,1,5,10
- HDMI/DP/DVI-D Video Outputs
- Built-in Watchdog Timer Technology
- Mini-ITX Form Factor (170mm \* 170mm)

| Form Factor      |                                                             |
|------------------|-------------------------------------------------------------|
| Dimensions       | - Mini-ITX (170 * 170mm)                                    |
| Processor System |                                                             |
| CPU              | - Intel LGA 1151 Socket Core i7 / i5 / i3 Pentium Processor |
| Core Number      | - (by CPU)                                                  |
| Max Speed        | - (by CPU)                                                  |
| L2 Cache         | - (by CPU)                                                  |

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Chipset                   | - Intel Q170 Express chipset                       |
| BIOS                      | - AMI 128Mb Flash ROM                              |
| <b>Expansion Slot</b>     |                                                    |
| PCI                       | - 0                                                |
| Mini-PCIe                 | - 2 (1* Half size & 1*Full size co-lay with mSATA) |
| mSATA                     | - 1 ( Full size , co-lay with mPCIe)               |
| PCIe                      | - 1 x16                                            |
| CFast Card Socket         | - 0                                                |
| CF Card Socket            | - 0                                                |
| <b>Memory</b>             |                                                    |
| Technology                | - DDR4 2133MHz Dual CH                             |
| Max.                      | - 32GB                                             |
| Socket                    | - 2 * SO-DIMM                                      |
| <b>Graphics</b>           |                                                    |
| Controller                | - (by CPU)                                         |
| VRAM                      | - Shared Memory                                    |
| VGA                       | - 0                                                |
| LVDS                      | - 1 * Onboard 24-bits dual channel connector       |
| HDMI                      | - 1 ( Hdmi2.0 , Max. Resolution: 4096*2160@60Hz)   |
| DVI-D                     | - 1 ( Max. Resolution: 1920*1080 )                 |
| DisplayPort               | - 1 ( DP1.2, Max. Resolution: 4096*2304@60Hz )     |
| MultiDisplay              | - Yes (Triple Display)                             |
| <b>Ethernet</b>           |                                                    |
| Ethernet                  | - 10/100/1000 Mbps                                 |
| Controller                | - GbE LAN: INI219LM + i211AT                       |
| Connector                 | - 2* RJ 45                                         |
| <b>Audio</b>              |                                                    |
| CODEC                     | - HD Audio : Realtek ALC662VD                      |
| Channel                   | - 6 Channel                                        |
| <b>SATA</b>               |                                                    |
| Max Data Transfer Rate    | - 4 * SATAIII (6.0Gb/s)                            |
| RAID                      | - Yes(RAID 0,1,5,10)                               |
| <b>Rear I/O</b>           |                                                    |
| VGA                       | - 0                                                |
| DVI-D                     | - 1                                                |
| HDMI                      | - 1                                                |
| DisplayPort               | - 1                                                |
| Ethernet                  | - 2                                                |
| USB                       | - 6 * USB 3.0                                      |
| Audio                     | - 3 ( MIC , Line-out, Line-in )                    |
| Serial                    | - 2 (COM1 support RS232/422/485 )                  |
| eSATA                     | - 0                                                |
| PS2                       | - 0                                                |
| <b>Internal Connector</b> |                                                    |
| USB                       | - 2 * USB 2.0                                      |

|                           |                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|
| PS/2                      | - 1                                                                                                                      |
| LVDS / inverter           | - 1                                                                                                                      |
| VGA                       | - 0                                                                                                                      |
| Serial                    | - 2 ( COM 3 support RS232/422/485 )                                                                                      |
| SATA                      | - 4 * SATAIII ( 6.0Gb/s )                                                                                                |
| mPCIe                     | - 2 (1*Half size , 1*Full size co-lay with mSATA)                                                                        |
| Parallel                  | - 0                                                                                                                      |
| mSATA                     | - 1 ( Full size co-lay with mPCIe )                                                                                      |
| CIR                       | - 0                                                                                                                      |
| GPIO 8-bit                | - 4in / 4out                                                                                                             |
| Chassis intrusion         | - 1                                                                                                                      |
| Audio Header              | - 1                                                                                                                      |
| TPM                       | - 1 (Option)                                                                                                             |
| <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/4 pin ATX PWR Connector                                                                                         |
| Power On                  | AT/ATX Supported<br>- AT : Directly PWR on as Power input ready<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<br>- Storage: -20°C – 85°C                                                                       |