



999.00 EUR

incl. 19% VAT, plus shipping

- Intel® Braswell Celeron® Processor N3160 1.6G Quad Core
- Support DDR3L 1600MHz Dual Channel,
- 2 \* SO-DIMMs, Max. up to 8GB
- Support VGA, DVI-D, LVDS 3 Independent Display
- Realtek RTL8111G PCIe GbE, 2 \* RJ45 ports
- Support 2 \* Serial ATAPI (6Gb/s)
- 1 \* External COM ( RS232/422/485 ),
- 5 \* Internal COM ( RS232 )
- COM ports with 5V/12V power selectable
- 4 \* External USB3.0 & 3 \* Internal USB1.1/2.0
- 1 \* PCIe x1 slot, 1 \* Full size mPCIe
- 1 \* M.2 ( SATA interface only, M key-2242/2260/2280 )
- 1 \* SIM Card Holder
- 1 \* Internal 4 Channel Audio ( Line Out & MIC )
- Lockable DC input over/under voltage protection
- 3 \* 4pin FAN type auto detection
- Thin Mini-ITX Form Factor (170mm x 170mm)

## Product Specifications

### Form Factor

**Dimensions** - Thin Mini-ITX (170 x 170mm)

### Processor System

<b>CPU</b>	- Intel® Braswell Celeron® Processor N3160, TDP : 6W (N3150 before December 2016)		
<b>Core Number</b>	- Quad Core		
<b>Speed</b>	- Processor Base Frequency : 1.6GHz, Burst Frequency : 2.08GHz		
<b>L2 Cache</b>	- 2MB		
<b>Chipset</b>	- SoC		
<b>BIOS</b>	- AMI 64Mb Flash ROM		
<b>Expansion Slot</b>			
<b>PCI</b>	- 0		
<b>PCIe</b>	- 1 ( x1 slot )		
<b>Memory</b>			
<b>Technology</b>	- Dual Channel DDR3L 1600 MHz SDRAM		
<b>Max.</b>	- 8GB		
<b>Socket</b>	- 2 * SO-DIMM		
<b>Graphics</b>			
<b>Controller / VRAM</b>	- Intel® HD Graphics / Shared system memory		
<b>VGA</b>	- Yes ( Max. Resolution : 1920X1200@60Hz )		
<b>DVI-D</b>	- Yes ( DVI-D, Max. Resolution : 1920X1200@60Hz )		
<b>HDMI</b>	- No		
<b>DisplayPort</b>	- No		
<b>eDP</b>	- No		
<b>LVDS</b>	- Yes ( 24-bits Dual Channel, Max. Resolution : 1920X1080@60Hz )		
<b>MultiDisplay</b>	- Yes ( 3 Independent Display )		
<b>Ethernet</b>			
<b>Interface</b>	- 10/100/1000 Mbps		
<b>Controller</b>	- PCIe GbE LAN : Realtek RTL8111G		
<b>Connector</b>	- 2 * RJ 45		
<b>Audio</b>			
<b>CODEC</b>	- HD Audio : Realtek ALC662VD		
<b>Channel</b>	- 4 Channel		
<b>SATA</b>			
<b>Max. Data Transfer Rate</b>	- 2 * SATAIII (6.0Gb/s)		
<b>RAID Support</b>	- No		
<b>Rear I/O</b>			
<b>VGA</b>	- 0	<b>SPDIF Output</b>	- 0
<b>DVI-D</b>	- 1	<b>Serial</b>	- 1 ( RS232/422/485 with 5V/12V selectable header )
<b>HDMI</b>	- 0		
<b>DisplayPort</b>	- 0	<b>Parallel</b>	- 0
<b>Ethernet</b>	- 2	<b>eSATA</b>	- 0
<b>USB</b>	- 4 ( USB 3.0 )	<b>PS2</b>	- 0
<b>Audio</b>	- 0	<b>DC-Input</b>	- 1 ( 12V Lockable DC-In PWR Jack )
<b>Internal Connector</b>			
<b>USB</b>	- 3 ( USB1.1/2.0 )	<b>SIM Card Holder</b>	- 1

<b>PS/2</b>	- 1	<b>CFast Card Socket</b>	- 0
<b>LVDS /</b>	- 1 ( 24 bits Dual Channel ) /	<b>CF Card Socket</b>	- 0
<b>Inverter</b>	1	<b>CIR</b>	- 0
<b>VGA</b>	- 1	<b>GPIO 8-bit</b>	- 1 ( 4in/4 out )
<b>Serial</b>	- 5 ( RS-232 with 5V/12V selectable header )	<b>Chassis intrusion</b>	- 1
		<b>Audio Header</b>	- 1 ( Line Out & MIC )
<b>Parallel</b>	- 0	<b>SPDIF</b>	- 0
<b>SATA</b>	- 2 ( SATAIII 6.0Gb/s )	<b>HDMI-SPDIF</b>	- 0
<b>mPCIe</b>	- 1 ( Full size )	<b>SMBUS/ I2C</b>	- 1 ( I2C )
		<b>AT mode jumper</b>	- 1
<b>mSATA</b>	- 0	<b>Jetway Daughter</b>	- 0
<b>M.2</b>	- 1 ( SATA interface only, M key-2242/2260/2280, shared with SATA2 )	<b>Audio Amplifier Header</b>	- 1 ( 3W Amp )
<b>Other</b>			
<b>Power</b>	- 12V Lockable DC-In PWR Jack, Supports AT/ATX Mode		
<b>Watchdog</b>	- Programmable 1 ~ 255 sec/min		
<b>Timer</b>			
<b>Certifications</b>	- CE, FCC, RoHS, REACH		
<b>Temperature</b>	- Operating : 0°C ~ 60°C, Storage : -20°C ~ 85°C		