



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)
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Processor System			
CPU	- Intel® Braswell Celeron® Processor N3160, TDP : 6W (N3150 before December 2016)		
Core Number	- Quad Core		
Speed	- Processor Base Frequency : 1.6GHz, Burst Frequency : 2.08GHz		
L2 Cache	- 2MB		
Chipset	- SoC		
BIOS	- AMI 64Mb Flash ROM		
Expansion Slot			
PCI	- 0		
PCIe	- 1 (x1 slot)		
Memory			
Technology	- Dual Channel DDR3L 1600 MHz SDRAM		
Max.	- 8GB		
Socket	- 2 * SO-DIMM		
Graphics			
Controller / VRAM	- Intel® HD Graphics / Shared system memory		
VGA	- Yes (Max. Resolution : 1920X1200@60Hz)		
DVI-D	- Yes (DVI-D, Max. Resolution : 1920X1200@60Hz)		
HDMI	- No		
DisplayPort	- No		
eDP	- No		
LVDS	- Yes (24-bits Dual Channel, Max. Resolution : 1920X1080@60Hz)		
MultiDisplay	- Yes (3 Independent Display)		
Ethernet			
Interface	- 10/100/1000 Mbps		
Controller	- PCIe GbE LAN : Realtek RTL8111G		
Connector	- 2 * RJ 45		
Audio			
CODEC	- HD Audio : Realtek ALC662VD		
Channel	- 4 Channel		
SATA			
Max. Data Transfer Rate	- 2 * SATAIII (6.0Gb/s)		
RAID Support	- No		
Rear I/O			
VGA	- 0	SPDIF Output	- 0
DVI-D	- 1	Serial	- 1 (RS232/422/485 with 5V/12V selectable header)
HDMI	- 0		
DisplayPort	- 0	Parallel	- 0
Ethernet	- 2	eSATA	- 0
USB	- 4 (USB 3.0)	PS2	- 0
Audio	- 0	DC-Input	- 1 (12V Lockable DC-In PWR Jack)
Internal Connector			
USB	- 3 (USB1.1/2.0)	SIM Card Holder	- 1
PS/2	- 1	CFast Card Socket	- 0
LVDS /	- 1 (24 bits Dual Channel) /	CF Card Socket	- 0
Inverter	1	CIR	- 0
VGA	- 1	GPIO 8-bit	- 1 (4in/4 out)
Serial	- 5	Chassis intrusion	- 1
	(RS-232 with 5V/12V selectable header)	Audio Header	- 1 (Line Out & MIC)
Parallel	- 0	SPDIF	- 0
SATA	- 2 (SATAIII 6.0Gb/s)	HDMI-SPDIF	- 0
mPCIe	- 1 (Full size)	SMBUS/ I2C	- 1 (I2C)

		AT mode jumper	- 1
mSATA	- 0	Jetway Daughter	- 0
M.2	- 1 (SATA interface only, M key-2242/2260/2280, shared with SATA2)	Audio Amplifier Header	- 1 (3W Amp)
Other			
Power	- 12V Lockable DC-In PWR Jack, Supports AT/ATX Mode		
Watchdog Timer	- Programmable 1 ~ 255 sec/min		
Certifications	- CE, FCC, RoHS, REACH		
Temperature	- Operating : 0■ ~ 60■, Storage : -20■ ~ 85■		