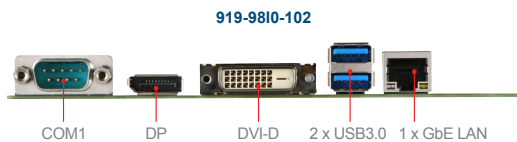
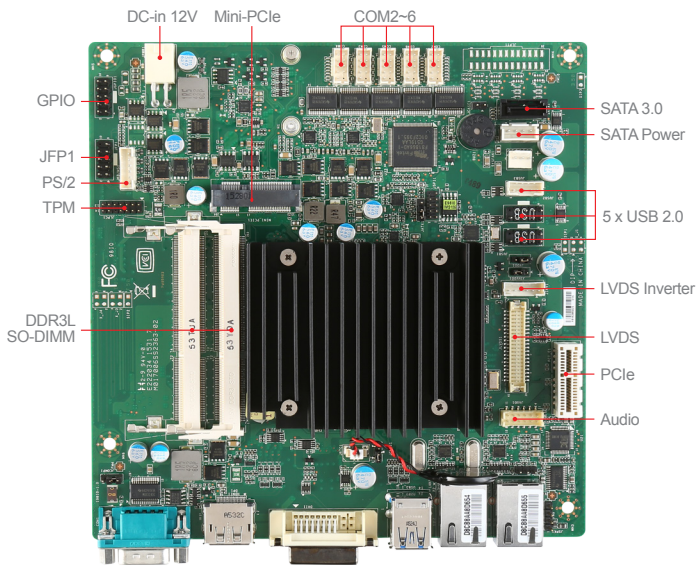


# MS-9810

Intel® Braswell Platform with Multi-displays and Low-profile Design

NEW

## Specifications



## Features

- Supports BGA Type Intel® Braswell N3700/N3150/N3050/N3000
- Low power and fanless design
- 3 independent displays: 1 DP/HDMI, 1 DVI-D, 1 LVDS
- 5 USB 2.0, 2 USB 3.0, 6 COM, and SATA 3.0 supported
- TPM supported with onboard chip or PIN header
- Support DC power 12V

## Ordering Information

Part Number	Description
919-9810-101	MS-9810\609-9810-010\809-9810-103 STD VER 1.0, FANLESS, Braswell CPU N3150, 1*SATA CABLE, 1*Power CABLE, I/O Shield, BULK
919-9810-102	MS-9810\609-9810-020\809-9810-104 STD VER 1.0, FANLESS, Braswell CPU N3050, 1*SATA CABLE, 1*Power CABLE, I/O Shield, BULK

## Packing List

Part Number	Description
E21-9810010-C22	I/O Shielding (2 x LAN)
E21-9810020-C22	I/O Shielding (1 x LAN)
G71-SEDC146-N56	Driver CD
K1D-1012064-V03	SATA Cable, 200mm
K10-3004215-V03	DC power cable, 160mm

<b>Processor</b>	CPU	Intel® Braswell SoC Processor N3700/N3710 N3150/N3160 N3050/N3060 N3000/N3010
	Frequency	Depends on CPU
	L2 Cache	Depends on CPU
	CPU Type	BGA
<b>Memory</b>	Chipset	Integrated
	BIOS	AMI
	Technology	Dual-channel DDR3L 1333/1600 MHz
<b>Memory</b>	Max. Capacity	Up to 8GB
	Socket	2 x 204-pin SO-DIMMs (1 slot for opt SKU)
<b>Display</b>	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual channel 24-bit
	DVI	1 (DVI-D)
	HDMI	1 (colay with DP)
	DisplayPort	1 (colay with HDMI)
	Multiple Display	3 independent displays
<b>Display</b>	Display Interface	LVDS up to 1920 x 1200 DP up to 3840 x 2160 HDMI up to 1920 x 1200 DVI up to 1920 x 1200
	Controller	2 or 1 x Realtek® RTL8111G-CG GbE LAN (depends on SKU)
	Controller	Realtek® ALC887 co-lay ALC888S
	Controller	Fintek F81866AD-I
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
<b>TPM</b>	Controller	Pin header (default) Infineon SLB9635TT 1.2 (by BOM option)
	USB	2 x USB 3.0 (rear) 5 x USB 2.0 (internal)
<b>I/O Interface</b>	Serial	6 x COM (1 x rear; 5 x internal) COM1: RS-232/422/485, 0V/5V/12V COM2~6: RS-232, w/o power
	Parallel	1 (by BOM option)
	PS/2	1 (pin header)
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
<b>Expansion Slot</b>	PCIe x 1	1
	Mini-PCIe	1 (Full size co-lay mSATA, support Half size card)
<b>Storage</b>	SATA	1 x SATA 3.0
	mSATA	1 (support by mini PCIe slot)
<b>Power Supply</b>	DC	DC-in 12V
	ATX	N/A
<b>Environment</b>	Operating Temperature	0 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
<b>Form Factor</b>	Dimensions	170mm x 170mm (Mini-ITX)
	Weight	0.37 Kg
<b>Certification</b>	EMC	FCC, CE, C-Tick, VCCI