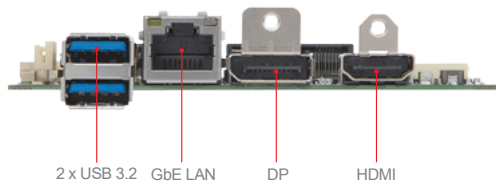
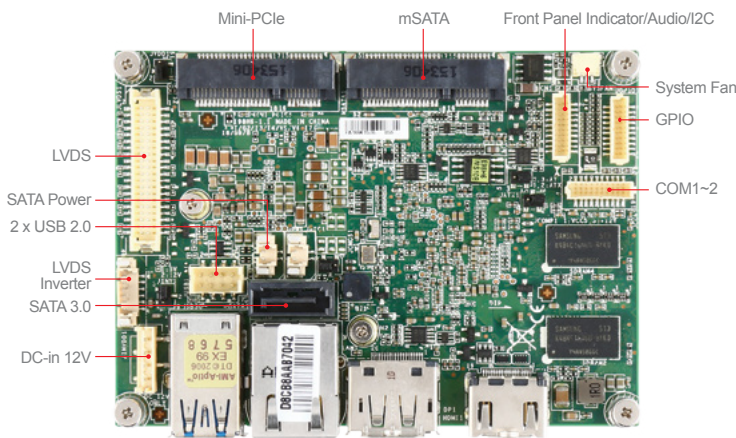


MS-98H6

Pico-ITX SBC with Intel® Braswell N3000 Series SoC Platform for Low-Power and Fanless Solution



Features

- Intel® Braswell Series SoC
- LPDDR3L 1600MHz onboard memory up to 2GB
- Triple independent displays: DP, HDMI, LVDS
- 2 GbE LAN with RJ-45
- 2 USB 3.2 Gen 1, 2 USB 2.0, 2 COM (RS-485), GPIO, Audio
- 1 Mini-PCIe (Full size with mSATA), 1 Mini-PCIe (Half-size) Slots
- SATA 3.0 for storage
- DC-IN 12V

Ordering Information

Part Number	Description
919-98H6-011	Intel Braswell N3710 SoC, Onboard 2GB DDR3L, HDMI, DP, GbE LAN, 2*USB3.0, 2*COM, Mini-PCIe, mSATA, I2C, DC-IN 12V, SATA CABLE WITH POWER, USB CABLE, COM PORT CALBE, DC-IN CABLE, CD, SINGLE
919-98H6-012	Intel Braswell N3160 SoC, Onboard 2GB DDR3L, HDMI, DP, GbE LAN, 2*USB3.0, 2*COM, Mini-PCIe, mSATA, I2C, DC-IN 12V, SATA CABLE WITH POWER, USB CABLE, COM PORT CALBE, DC-IN CABLE, CD, SINGLE
919-98H6-013	Intel Braswell N3010 SoC, Onboard 2GB DDR3L, HDMI, DP, GbE LAN, 2*USB3.0, 2*COM, Mini-PCIe, mSATA, I2C, DC-IN 12V, SATA CABLE WITH POWER, USB CABLE, COM PORT CALBE, DC-IN CABLE, CD, SINGLE

Packing List

Part Number	Description	Quantity
K14-3018001-V03	COM PORT Cable, 150mm	1
K1B-3008034-V03	USB Cable, 150mm	1
K1D-3010008-V03	SATA Cable with Power, 150mm	1
K1G-3004057-V03	DC Power Cable, 150mm	1
G71-SEDC149-X03	Driver DVD	1

Specifications

Processor	CPU	Intel® Pentium® processor N3710, QC, 6W Intel® Celeron® processor N3160, QC, 6W Intel® Celeron® processor N3010, DC, 4W
	Frequency	N3710, 1.6 GHz up to 2.56 GHz N3160, 1.6 GHz up to 2.24 GHz N3010, 1.04 GHz up to 2.24 GHz
	L2 Cache	2MB
	CPU Type	BGA
Memory	Chipset	Integrated in SoC
	BIOS	AMI
	Technology	Single-channel DDR3L 1600MHz
	Max. Capacity	Up to 2GB
Display	Socket	Onboard
	Controller	Intel® HD Graphics
	Graphic Memory	Depends on CPU
	LVDS	Dual Channel 18/24-bit
	HDMI	1
	DisplayPort	1
Display Interface	Multiple Display	3 independent displays
	Display Interface	LVDS up to 1920 x 1200 @60Hz HDMI up to 2560 x 1600 @60Hz; up to 3840 x 2160 @30Hz DP1.1a up to 2560 x 1600 @60Hz; up to 3840 x 2160 @30Hz
Ethernet	Controller	1 x Intel® I211-AT GbE LAN
Audio	Controller	Realtek® ALC887-VD2-CG HD Audio Codec
Super I/O	Controller	Fintek F81866AD-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	N/A
I/O Interface	USB	2 x USB 2.0 (internal) 2 x USB 3.2 Gen 1 (rear)
	Serial	2 x COM ports (internal) COM1: RS-232/422/485, 0V/5V/12V COM2: RS-232/422/485, 0V/5V/12V
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V
Expansion Slot	M.2	N/A
	Mini-PCIe	1 x Half-size
Storage	SATA	1 x SATA 3.0
	mSATA	1
Power Supply	DC	DC-in 12V
	ATX	N/A
Environment	Operating Temperature	Heat-Spreader: 100(L) x 72.2(W) x 8(H) mm (standard packing) Heat-Sink: -10~60°C, 100(L) x 72.2(W) x 33(H) mm (by option)
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
Form Factor	Storage Humidity	10 ~ 90%, non-condensing
	Dimensions	100 x 72mm (Pico-ITX)
	Weight	0.27 kg
Certification	EMC	FCC, CE, RCM, VCCI, BSMI
Software Platform	OS Support	Windows 7 (32/64-bit) Windows 8.1 (32/64-bit) Windows 10 (64-bit) Linux Fedora 21 (by request) Linux Ubuntu14.04 (by request)