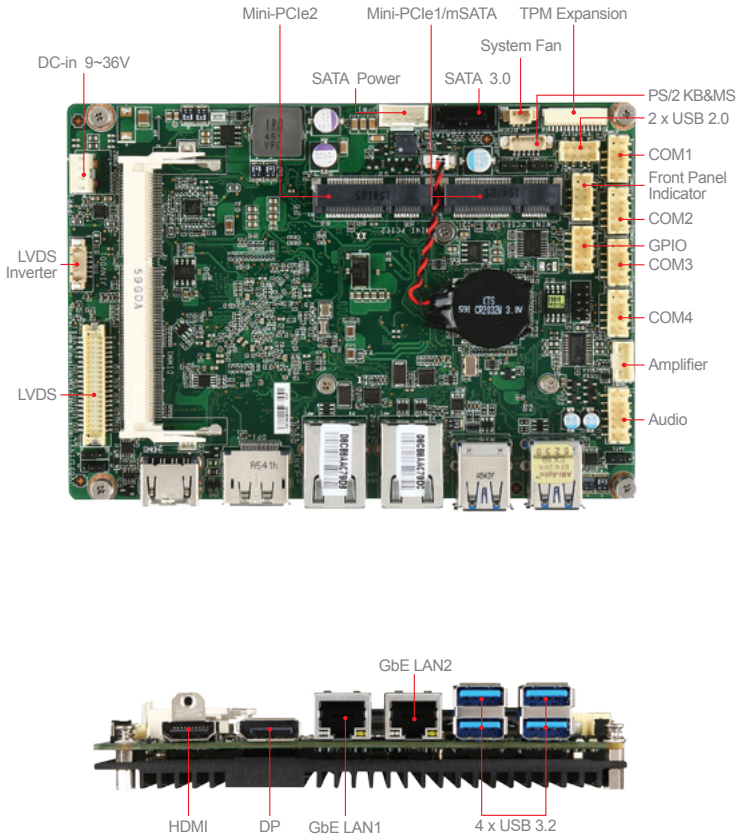


MS-9818

3.5" SBC with Intel® Celeron® Processor N3010/N3160 for Fanless, Ultra Low-Power, Wide Voltage Range & High-Performance Solution



Features

- Intel® Braswell Series SoC
- DDR3L 1333/1600 MHz SODIMM Slot up to 8GB
- Triple independent displays: DP, HDMI, LVDS
- 2 GbE LAN with RJ-45
- 1 Mini-PCIe (Full size, with mSATA), 1 Mini-PCIe(Full size) Slots
- SATA 3.0 for storage
- 4 USB 3.2 Gen 1, 2 USB 2.0, 4 COM (1 RS-485), GPIO, PS/2, Audio
- Wide Voltage DC-IN 9~36V

Ordering Information

Part Number	Description
919-9818-003	MS-9818 10 OPTB, 3.5-INCH, INTEL CELERON N3160, 1*DDR3L SO-DIMM, DP, HDMI, LVDS, 2*MINI-PCIE, 2*LAN, 1*SATA3.0, 1*MSATA, 6*USB (4*USB 3.0+2*USB 2.0), 4*COM, DC-IN 9~36V
919-9818-004	MS-9818 10 OPTC, 3.5-INCH, INTEL CELERON N3010, 1*DDR3L SO-DIMM, DP, HDMI, LVDS, 2*MINI-PCIE, 2*LAN, 1*SATA3.0, 1*MSATA, 6*USB(4*USB 3.0+2*USB 2.0), 4*COM, DC-IN 9~36V

Packing List

Part Number	Description	Quantity
K10-3002145-V03	DC LOCKABLE CABLE, 120mm	1
K1B-3008034-V03	USB2.0 CABLE, 150mm	1
K14-1009062-V03	INT COM PORT CABLE, 250mm	1
K1D-1012064-V03	SATA Power CABLE, 200mm	1
G71-SEDC152-N56 / X03	DRIVER CD	1
E31-0806020-K08	Heatsink	1

Specifications

Processor	CPU	Intel® Celeron® Processor N3160, QC, 6W Intel® Celeron® Processor N3010, DC, 4W
	Frequency	N3160, 1.6 GHz up to 2.24 GHz N3010, 1.04 GHz up to 2.24 GHz
	L2 Cache	2MB
	CPU Type	BGA
	Chipset	Integrated in SoC
	BIOS	AMI
Memory	Technology	Single-channel DDR3L 1600MHz
	Max. Capacity	Up to 8GB
	Socket	1 x 204-pin SO-DIMM
Display	Controller	Intel® HD Graphics
	Graphic Memory	Depends on CPU
	LVDS	Dual Channel 18/24-bit
	HDMI	1
	DisplayPort	1
	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	2 x Realtek® RTL8111G 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	Pin header
I/O Interface	USB	2 x USB 2.0 (internal) 4 x USB 3.2 Gen 1 (rear)
	Serial	4 x COM ports (internal) COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232
	PS/2	1 (box header)
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
	M.2	N/A
	Mini-PCIe	2 x Full-size (one w/mSATA)
Storage	SATA	1 x SATA 3.0
	mSATA	1 (Shared with Mini-PCIe)
Power Supply	DC	DC-in 9~36V
	ATX	N/A
Environment	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
Form Factor	Dimensions	146 x 102mm (3.5")
	Weight	0.33 kg
Certification	EMC	FCC, CE, RCM, VCCI, BSMI
Software Platform	OS Support	Windows 7 (32/64-bit) Windows 8.1 (64-bit) Windows 10 (64-bit) Linux Fedora 21 (by request) Linux Ubuntu 14.04.03 (by request)