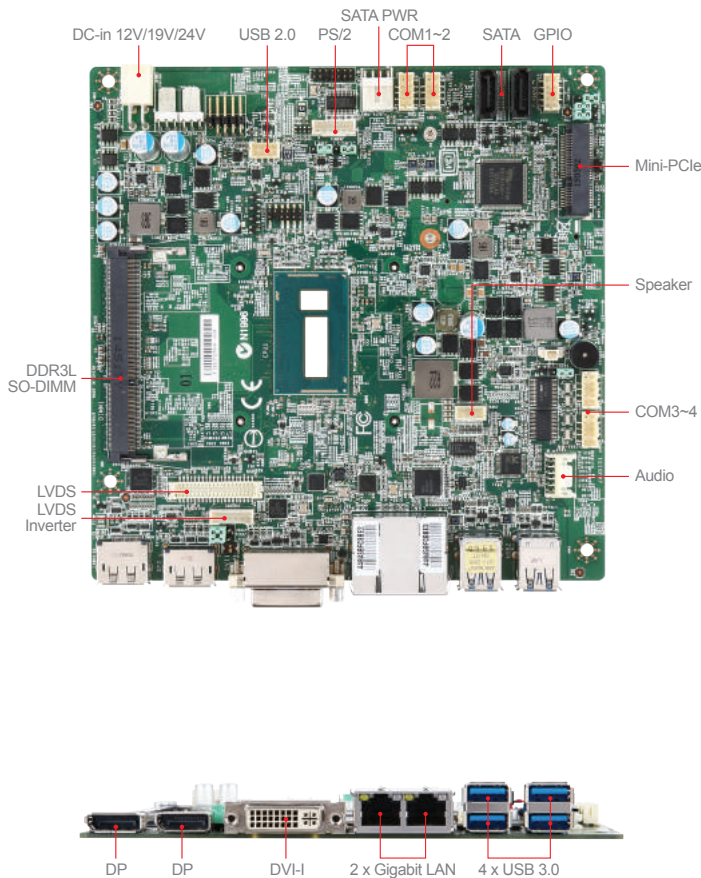


MS-98H4

Mini-ITX with 5th Gen Intel® Broadwell ULT Platform for Multi-Displays



Features

- 5th Gen Intel® Broadwell ULT SoC processors
- Embedded Mini-ITX Motherboard for Fanless computer in Digital Signage, touch panel PC, tablet application
- Supports DDR3L 1600MHz SO-DIMM memory up to 16GB
- 3 independent displays: LVDS, HDMI, DP, VGA, DVI-D
- 2 x GbE LAN, 4 x USB 3.0, 4 x COM (w/ Power)
- 2xSATA 3.0, 2xfull-size Mini-PCle (one shared mSATA or SIM holder)
- Supports wide voltage DC-in 12/19/24V

Specifications

Processor	CPU	5th Gen Intel® Mobile Broadwell ULT Core™ i3/i5/i7 processor
	Frequency	Depends on CPU
	L2 Cache	Depends on CPU
	CPU Type	BGA
	Chipset	Integrated
Memory	BIOS	AMI
	Technology	Dual-channel DDR3L 1333/1600 MHz
Display	Max. Capacity	Up to 16GB
	Socket	2 x 204-pin SO-DIMMs
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	1 x Dual channel 18/24-bit (Colay with DP)
	eDP	N/A
	VGA	1 (shared w/ DVI-D)
	DVI	1 (DVI-D, shared w/ VGA)
	HDMI	N/A
	DisplayPort	2
Display Interface	Multiple Display	3 independent displays
	Display Interface	LVDS up to 1920 x 1200 @60Hz HDMI up to 4096 x 2304 @30Hz DP up to 3840x 2160 @60Hz DVI-I up to 1920x 1200 @60Hz
Ethernet	Controller	1 x Intel® I218LM GbE LAN PHY 1 x Intel® I210-AT GbE LAN
Audio	Controller	Realtek® ALC887/888S HD Audio Codec
Super I/O	Controller	Fintek F81866AD-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Infineon SLB9635TT 1.2 (by BOM option)
I/O Interface	USB	4 x USB 3.0 (rear) 2 x USB 2.0 (internal)
	Serial	4 x COM ports (by SKU) COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232, 0V/5V/12V
	Parallel	N/A
	PS/2	1 (pin header)
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
Expansion Slot	PCIe x16	N/A
	PCIe x4	N/A
	PCIe x1	N/A
	PCI	N/A
	M.2	N/A
	Mini-PCle	2 x Full-size (one w/ SIM holder or mSATA)
	SATA	2 x SATA 3.0
Storage	IDE	N/A
	eSATA	N/A
	CFast	N/A
	mSATA	1 (shared w/ Mini-PCle)
	CompactFlash	N/A
Power Supply	DC	DC-in 12V/19V/24V
	ATX	N/A
Environment	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10~ 90%, non-condensing
Form Factor	Dimensions	170 x 170mm (Mini-ITX)
	Weight	0.37 kg
Certification	EMC	FCC, CE, RCM, VCCI
Software Platform	OS Support	Windows 7 (32/64-bit) Windows 8.1 (32/64-bit) Windows 10 (32/64-bit) Linux Fedora Core 21 Linux Ubuntu 15.04