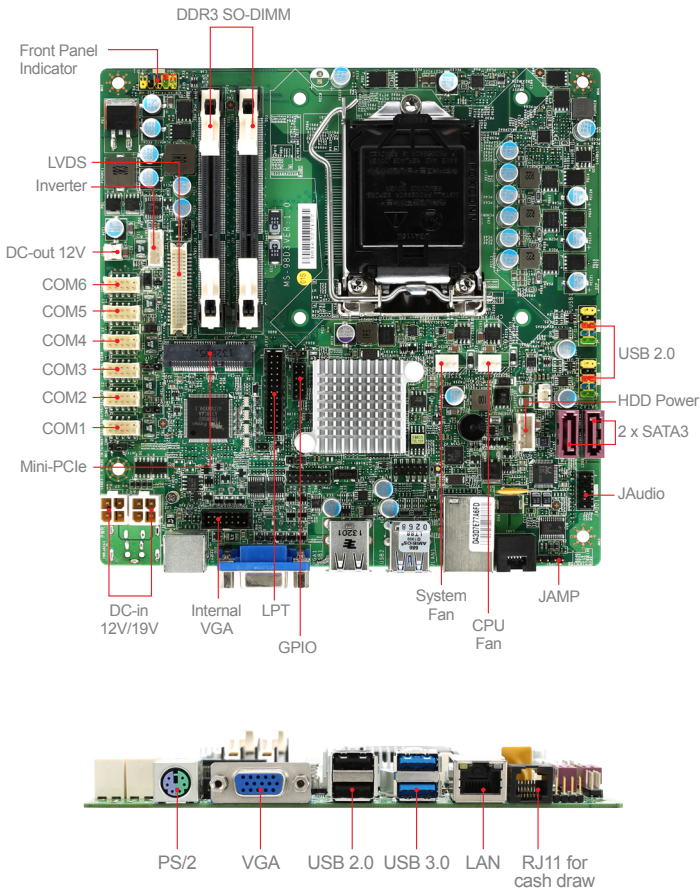


MS-98D3

Intel® 4th Gen H81 Thin Mini-ITX Solution for High-performance POS Application



Features

- Standard thin Mini-ITX form factor (low-profile)
- COM1 to COM4 support power selection by BIOS instead of jumper (easy to configure)
- Multiple video outputs: VGA, LVDS, and internal VGA
- Support DC-12V out for second monitor (for POS application)
- DC-in 12V/19V auto-switch
- Support cash drawer with RJ11 (for POS application)

Ordering Information

Part Number	Description
919-98D3-002	MS-98D3\MS-98D3\609-98D3-020\809-98D3-003\STD MS-98D3\NA VER 10 OPT B FOR CHANNEL SHIPPMENT SINGLE

Packing List

Part Number	Description
K14-1018003-V03	COM PORT CABLE, 300mm
K1D-1008261-V03	SATA CABLE, 500mm
K1D-3008006-V03	SATA CABLE,POWER, 200/300mm
E21-98D3010-C22	IO SHIELD FOR MS-98D3

Specifications

Processor	CPU	4th Gen Intel® Desktop H3 Core i7/i5/i3/ Celeron Processor
	Frequency	Depends on CPU
	L2 Cache	Depends on CPU
	CPU Type	Socket (LGA 1150)
	Chipset	Intel® H81 Express
Memory	BIOS	AMI
	Technology	Dual-channel DDR3/DDR3L 1066/1333/1600 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
Ethernet	LVDS	Dual channel 24-bit (add chrontel 7511B chipset)
	VGA	1 x rear I/O; 1 x internal
	Multiple Display	2 independent displays
	Display Interface	VGA up to 1920 x 1200 LVDS up to 1920 x 1080
Ethernet	Controller	1 x Realtek® RTL8111-E-VL-CG GbE LAN
Audio	Controller	Realtek® ALC887 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	6 x USB 2.0 (4 x internal; 2 x rear)
	Serial	6 x COM (internal) COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232, 0V/5V/12V (selected by BIOS) COM5~6: RS-232, without power (COM1 & COM2 support WOR)
	Parallel	1
	PS/2	1
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
	Expansion Slot	Mini-PCle
Storage	SATA	2 x SATA 3.0
	mSATA	1
Power Supply	DC	DC-in 12V/19V DC-out 12V-2P
	ATX	N/A
Environment	Operating Temperature	0 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
Form Factor	Dimensions	170mm x 170mm (Mini-ITX)
	Weight	0.33Kg
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI

Mini-ITX Board
Micro-ATX Board
ATX Board
3.5" Board
Pico-ITX Board
EPIC Board
PiCOMG 1.0 Board
OSseven Board
COM Express Board
POS System
Semi-rugged Terminal
Embedded Board
Embedded System
HMI Panel PC