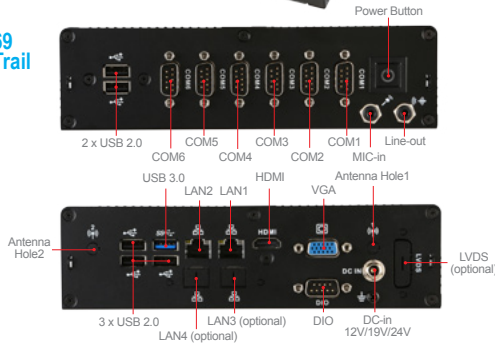


MS-9A69

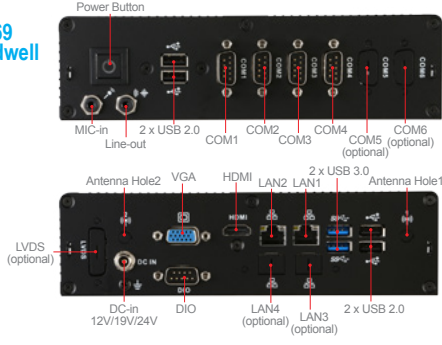
Compact-Size Box PC with Intel® BDW ULT or Bay Trail-D Series Processor for Ultra Low-Power Fanless Solution



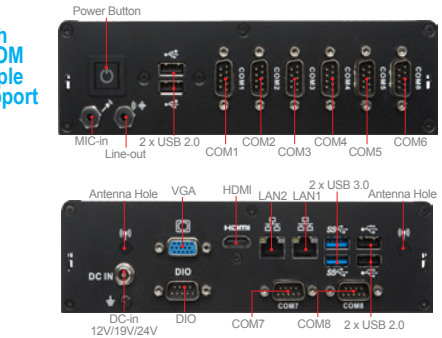
MS-9A69 with BayTrail



MS-9A69 with Broadwell



MS-9A69 with Broadwell 8 COM ports for multiple connection (Support by Request)



Features

- Ultra low power with fanless design
- Supports DDR3L 1333/1600 MHz SO-DIMM memory up to 8GB
- 2 or 3 independent displays: HDMI, VGA and LVDS (BDW only)
- Dual GbE LAN, rich USB and COM ports
- Dual Mini-PCIe for expansion
- Supports DC-in 12V/19V/24V
- 2 openings reserved for antennas

Ordering Information

Part Number	Description
Please check MSI IPC website at http://ipc.msi.com for details.	

Packing List

Part Number	Description
Please check MSI IPC website at http://ipc.msi.com for details.	

Specifications

System Processor	CPU	Intel® Celeron® Processor J1900, QC, 10W	Intel® BDW ULT Core™ i3-5010U Processor, DC, 15W
	Frequency	2 GHz	2.1 GHz
	L2 Cache	2MB	3MB
	CPU Type	BGA	BGA
	Chipset	Integrated in SoC Process	Integrated in Process
Memory	BIOS	AMI	
	Technology	Single-channel DDR3L 1333 MHz	Single-channel DDR3L 1600 MHz
Memory	Max. Capacity	Up to 8GB	
	Socket	1 x 204-pin SO-DIMM	
Graphic	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	Multiple Display	2 independent displays	3 independent displays
Graphic	Display Interface	VGA up to 2560 x 1600 @60Hz	VGA up to 1920 x 1200 @60Hz
		HDMI up to 1920 x 1080 @60Hz	HDMI up to 1920 x 1080 @60Hz
Graphic	Display Interface	LVDS up to 1920 x 1200 @60Hz (optional)	LVDS up to 1920 x 1200 @60Hz (optional)
		2 x Intel® I210-AT GbE LAN	1 x Intel® I210-AT GbE LAN 1 x Intel® I218-LM GbE LAN PHY
Ethernet	Controller	2 x Intel® I210-AT GbE LAN	
Audio	Controller	Realtek® ALC887-VD2-CG HD Audio Codec	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
TPM	Controller	N/A	
Expansion Slot	M.2	N/A	
	Mini-PCIe	2 x Full-size (one w/ mSATA)	1 x Full-size (w/ mSATA) 1 x Half-size
Storage	SATA	1 x 2.5" HDD/SSD Bay	
	mSATA	1 x Full-size (Shared with Mini-PCIe)	
Storage	RJ-45	4 (optional 2 x RJ-45 version available)	
	PoE	N/A	
Storage	Audio	1 x Line-out / 1 x Mic-in	
	USB	1 x USB 3.0 5 x USB 2.0	2 x USB 3.0 4 x USB 2.0
I/O Interface	Serial	6 x COM ports COM1: RS-232/422/485, 0V/5V/12V COM2-6: RS-232, 0V/5V/12V	4 x COM ports COM1: RS-232/422/485, 0V/5V/12V COM2-4: RS-232, 0V/5V/12V
	GPIO	8-bit (4*GPI; 4*GPO), 5V	
I/O Interface	CANbus	2 x CAN 2.0B (by BOM option)	
	HDMI	1	
I/O Interface	LVDS	1 (optional)	
	VGA	1	
I/O Interface	Antenna	2 openings reserved for antennas	
	DC Input	DC-in 12V/19V/24V	
Power Supply	AC Input	N/A	
	IP Rating	N/A	
Environment	Operating Temperature	-10 ~ 45°C (HDD) -10 ~ 55°C (SSD or mSATA)	
	Operating Humidity	10 ~ 90%, non-condensing	
Environment	Storage Temperature	-20 ~ 80°C	
	Storage Humidity	10 ~ 90%, non-condensing	
Environment	Vibration	Operating: 0.25 Grms, 5-300Hz, 3axes (w/ HDD)	
	Shock	Operating: 3 G, half sine 11 ms duration (w/ HDD)	
Physical characteristics	Dimensions (WxDxH)	200 x 150 x 55mm	
	Weight	1.38 kg	
Physical characteristics	Mounting	Wall mount (STD)/VESA mount(by BOM option)/DIN-rail mount(by BOM option)	
	EMC	FCC, CE, RCM, VCCI, BSMI	
Certification	Safety	BSMI	
	OS Support	Windows 7 (32/64-bit) Windows 8.1 (32/64-bit) Windows 10 (32/64 Bit) Linux Fedora 20 Linux Ubuntu 13.10	Windows 7 (64-bit) Windows 8.1 (32/64-bit) Windows 10 (64 Bit) Linux Fedora 19 Linux Ubuntu 13.04

Optional Items

Part Number	Description
E22-9A25031-C22	VESA Mount
E24-9B02010-P09	DIN Rail
E41-1356002-P65	Screw for DIN Rail