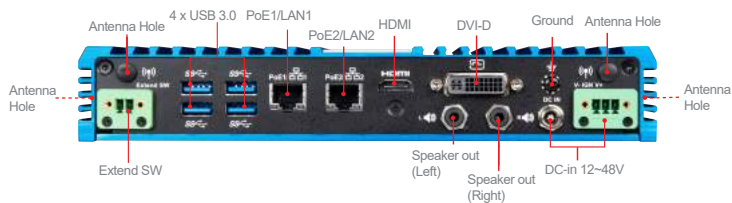
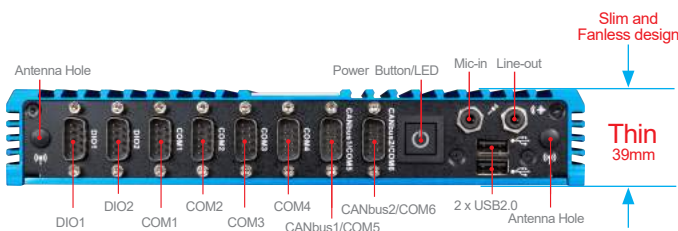


MS-9B17

In-Vehicle/Transportation Box PC with Intel® Apollo Lake Series Processor for 2 PoE Ports, 2 CANbus & Slim Fanless Solution

NEW



Features

- Supports Dual GbE LAN with PoE (IEEE 802.3af) & 2channel CANBus 2.0B
- Supports 2 independent displays : 1 x DVI-D, 1 x HDMI
- Supports LPDDR4 2400 MHz onboard memory up to 4GB
- Supports 4 USB 3.0, 2 USB 2.0, and 4~6 COM ports (all with power)
- Mini-PCIe & M.2 B Key 2242/3042 with NANO SIM-Holder, SATA 3.0, 2 M Key 2242 for storage
- Apollo Lake-I Series support wide operating temperature : -20 ~ 70°C
- Supports wide voltage 12~48V for in-vehicle application
- Slim design for anti-vibration in harsh environments
- 6 openings reserved for antennas
- E-Mark, EN50155 Compliance

Ordering Information

Part Number	Description
Coming soon	

Packing List

Part Number	Description
Coming soon	

Specifications

		MS-9B17-A1	MS-9B17-A2
		Intel® Atom™ x7 Processor E3950, QC, 12W	Intel® Celeron® Processor J3455E, QC, 10W
Processor	Frequency	1.6 GHz, up to 2.0 GHz	1.5 GHz, up to 2.3 GHz
	L2 Cache	2MB	
	CPU Type	BGA	
	Chipset	Integrated in SoC	
	BIOS	AMI	
Memory	Technology	Dual-channel LPDDR4 2400MHz	
	Max. Capacity	Onboard 4GB, up to 8GB	
	Socket	N/A	
Display	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	Multiple Display	2 independent displays	
	Display Interface	DVI-D up to 1920 x 1200 @60 Hz HDMI up to 3840 x 2160 @30Hz	
Ethernet	Controller	2 x Intel® I210-IT GbE LAN (w/ PoE IEEE 802.3af)	2 x Intel® I211-AT GbE LAN
	Controller	Realtek® ALC887 HD Audio Codec	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
TPM	Controller	Infineon SLB9665XT 2.0 Pin Header	
Expansion Slot	M.2	1 x M Key (SATA 3.0), 2242 1 x B Key (PCIe x1, USB2.0), 3042	
	Mini-PCIe	1 x Full-size (w/ SIM holder)	
Storage	SATA	1 x 2.5" HDD/SSD Bay	
	RJ45	2	
I/O Interface	PoE	2 x IEEE 802.3af	N/A
	Audio	1 x Mic-in, 1 x Line-out, 1 x Speaker-out (R&L)	
	USB	2 x USB 2.0 4 x USB 3.0	
	Serial	4 x COM ports COM1~2: RS-232/422/485 COM3~4: RS-232	6 x COM ports COM1~2: RS-232/422/485 COM3~6: RS-232
	GPIO	16-bit (8*GPI; 8*GPO), 5V	
	CANbus	2 x CANBus 2.0B	N/A
	HDMI	1	
	DVI	1 (DVI-D)	
	Antenna	6	
	Power Supply	DC Input DC-in 12~48V Wide-Range Phoenix pluggable connectors with latch (V-, IGN, V+)	
Environment	Operating Temperature	-20~70°C (w/ WT SSD/mSATA)	-10~60°C (w/ WT SSD/mSATA)
	Operating Humidity	-10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	
	Storage Humidity	10 ~ 90%, non-condensing	
	Vibration	IEC61373 Category 1, Class B	
	Shock	IEC61373 Category 1, Class B	
Physical Characteristics	Dimensions (W x D x H)	235 x 170 x 39 mm	
	Weight	1.52 kg	
Certification	EMC	CE, FCC, VCCI, RCM, BSMI, E-MARK, EN50155	
	Safety	BSMI	
Software Platform	OS Support	Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)	
	Mounting	Wall mount (STD)/DIN-rail mount(by BOM option)/VESA mount(by BOM option)	