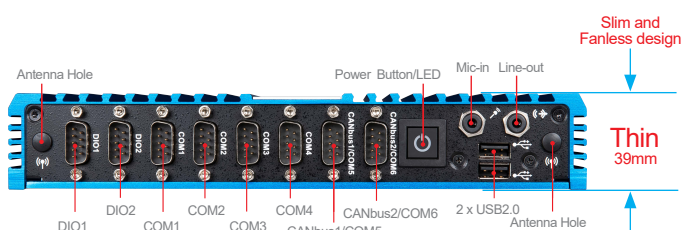


MS-9B17

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-PCle & 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
Processor	CPU	Intel® Atom™ x7 Processor E3950, QC, 12W	Intel® Atom™ x7 Processor J3455E, QC, 12W
	Frequency	1.6 GHz, up to 2.0 GHz	
	L2 Cache	2MB	
	CPU Type	BGA	
	Chipset	Integrated in SoC	
Memory	BIOS	AMI	
	Technology	Dual-channel LPDDR4 2400MHz	
	Max. Capacity	Onboard 4GB, up to 8GB	
Display	Socket	N/A	
	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	Multiple Display	2 independent displays	
Ethernet	Display Interface	DVI-D up to 1920 x 1200 @60 Hz HDMI up to 3840 x 2160 @30Hz	
	Controller	2 x Intel® I210-IT GbE LAN (w/ PoE IEEE 802.3af)	2 x Intel® I211-AT GbE LAN
Audio	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-PCle	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-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	
Physical Characteristics	Shock	IEC61373 Category 1, Class B	
	Dimensions (W x D x H)	235 x 170 x 39 mm	
Certification	Weight	1.52 kg	
	Mounting	Wall mount (STD)/DIN-rail mount(by BOM option)/VESA mount(by BOM option)	
Software Platform	EMC	CE, FCC, VCCI, RCM, BSMI, E-MARK, EN50155	
	Safety	BSMI	
OS Support	OS Support	Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)	