

Fanless In-Vehicle Computer, SIGM Series

SIGM-2650

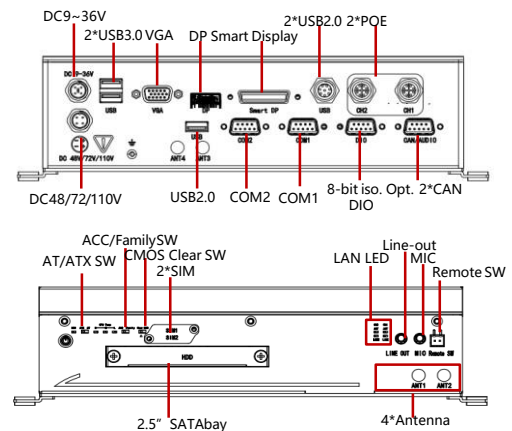
Intel® Apollo Lake E3950 CPU, 2*POE, 2*USB3.0, DP/VGA, Smart Display, 2*COM, 8-bit Iso.DIO, DC 9~36V, ITPS management, Optional DC 48/72/110V input.



The SIGM-2650 is a fanless In-Vehicle rugged computer, Powered by Intel® Apollo Lake E3950 processor and dual-channel (On-board + SODIMM) DDR3L, supporting 1866MHz, up to 8GB. DP+ VGA+ Smart Display, three display interfaces, 2*POE, 5*USB, 4*Mini PCIe, support dual 4G VPN/Wifi/BT/GPS and other wireless functions, 2*COM with isolation function, 8-bit isolated DIO, Optional 2*CAN. 1*mSATA, 1* easy-swap 2.5-inch SATA3.0 for storage. DC 9~36V wide voltage power supply, ITPS power management, optional Railway standard power input DC 48/72/110V, E-mark vehicle certification, EN50155 certification, suitable for road vehicle, Railway vehicle applications.

KeyFeatures

- Aluminum chassis, Fanless design
- Intel® Apollo Lake E3950 CPU
- 2-Ch DDR3L, On-board+ SODIMM, up to 8GB
- 1*DP, 1*VGA, 1*Smart Display, three displays
- 2*GbE LAN(with POE function), 5*USB
- 2*Iso.COM, 8-bit Iso. DIO, optional 2*CAN
- 4*Mini PCIe(opt. 1*mSATA), support GPS/WiFi/4G
- EN50155, E-Mark certification
- TPM2.0, DC 9~36V, ITPS power management
- Optional Railway power DC 48/72/110V



SPEC.

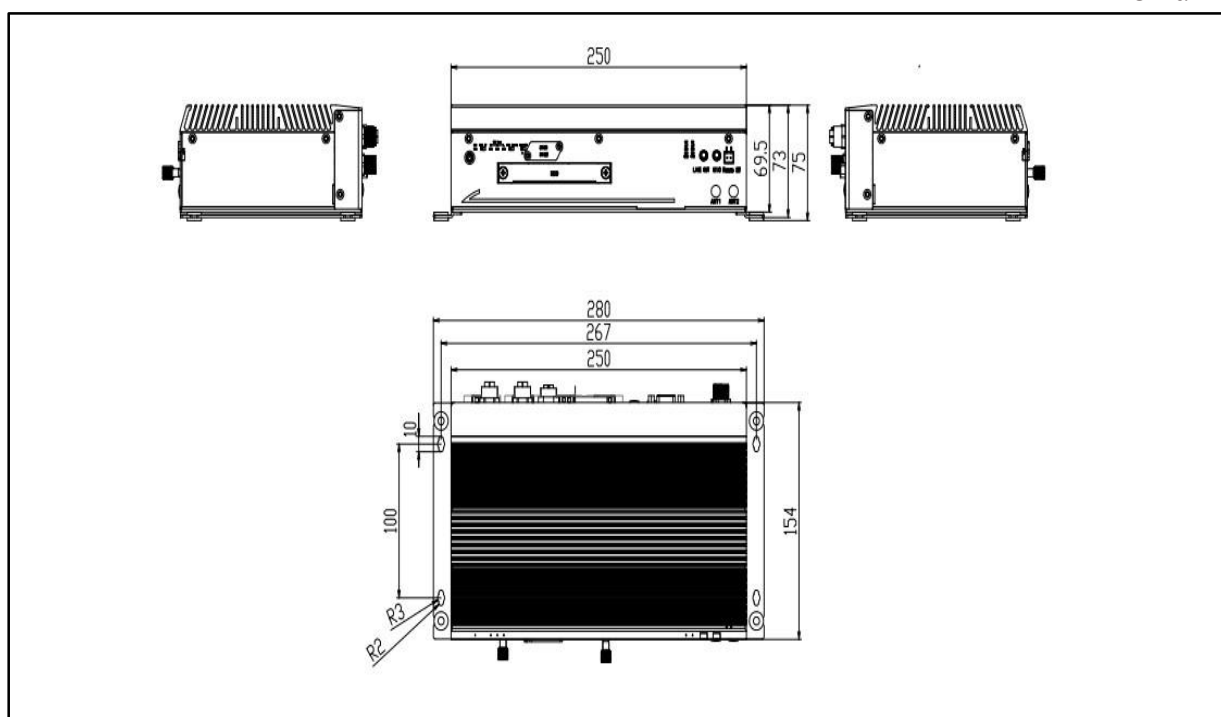
System	CPU	Intel® Apollo lake E3950 CPU, 4 Cores, 4 Threads, up to 2.00GHz, 2 MB L2, TDP 12W
	System Memory	2-ch DDR3L, support 1866MHz, on board 4GB+ 1*SODIMM, up to 8GB
	Expansion	2*Mini PCIe with PCIe X1+ USB signal, 2*SIM slot, support 2*4G/LTE/Wifi/BT/GPS 1*Mini PCIe with SATA+ USB signal, support mSATA 1*Mini PCIe with USB signal, when using 2*CAN, This slot is occupied
	Intel Graphics	Intel Gen.9 HD Graphics 505, DP max. res. 4096*2160@60Hz, Smart Display max. res. 1920*1200@60Hz, VGA max. res. 1920*1200@60Hz, support 3 displays
	Audio	Realtek ALC662VD controller, Audio out and MIC, support 5.1 channel
	LAN	2*Intel I210AT PCIe Gig. Ethernet, M12 connector, with POE function, 802.3af (15.4W)
	Storage	1*2.5" HDD/SSD bay, 1*mSATA(SATA+ USB)
	DIO	4-ch input/4-ch output, isolated (DB9), 2.5KV opto-isolated input(H: 5-24V, L: 0-1.5V), opto-isolated output(200mA)
	I/O ports	2*Gig-LAN, with POE 802.3af 15.4W (M12 X-coded) 2*USB3.0 (Type A); 1*USB2.0 (Type A); 2*USB2.0 (M12) 4-ch input/4-ch output, isolated (DB9 male), 2*SIM slot 1*RS232 isolated (DB9 male), 1*RS485 isolated (DB9 male), Optional 2*CAN 2.0(DB9 male) 1*Audio-out & 1*MIC (3.5mm phonejack) 1*DP+ 1*VGA+ 1*Smart Display
	LED	1*PowerLED, 1*HDDLED, 3*CPU Temp. LED (Red is warning, yellow is High, Green is normal) 3*LAN LED (ACT/LINK)
	Control SW	1*Power button, 1*Remote SW signal, 1*AT/ATX SW, 1*Clear CMOS SW, 1*ACC/Family select SW
	Power Supply	DC 9~36V input, 5-pin connector (M12), TDP: 12W/3.7A(E3950 CPU, 4G DDR3L, 128G HDD, 128G SSD) Optional Railway power module, DC 48/72/110V input, 4-pin connector (M12)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
	OS Support	Windows 10, Linux, Wind River VxWorks

*All specifications and photos are subject to change without notice.

Mechanical	Structure	Aluminum chassis, SGCC frame
	Color	Silver & Grey
	Mounting	Desktop Mounting
	Dimension	(W*H*D) : 250*154*72mm
	Netweight	3.10Kg
Environmental	Operating temperature	EN50155 TX: -40~70℃ (Operating 10min in 85℃)
	Storage Temperature	-40℃~85℃
	Storage Humidity	10~90%@40℃, Non-condensing
	Vibration	MIL-STD-810G, EN50155
	Shock	MIL-STD-810G, EN50155
	Certification/EMC	EN50155, E-Mark, CE/FCC Class B

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
SIGM-2650/S001	Fanless In-Vehicle Computer, Intel® Apollo Lake E3950 CPU, 4GB+1*SODIMM DDR3L, 2*POE, 2*USB3.0, 3*USB2.0, 2*COM, 3*Mini PCIe, 1*Smart Display, 1*DP, 1*VGA, Audio out, Mic, 8-bit iso. DIO, 1*2.5" SATA bay, 1*mSATA, DC 9~36V, ITPS, TPM2.0
SIGM-2650/S002	Fanless In-Vehicle Computer, Intel® Apollo Lake E3950 CPU, 4GB+1*SODIMM DDR3L, 2*POE, 2*USB3.0, 3*USB2.0, 2*COM, 3*Mini PCIe, 1*Smart Display, 1*DP, 1*VGA, Audio out, Mic, 8-bit iso. DIO, 1*2.5" SATA bay, 1*mSATA, DC 48/72/110V, TPM2.0
PA-60DC12	AC/DC power adapter, DC 12V/5A 60W

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