

JHCTECH

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JHCTECH IoT Computer
Connecting the Dots

SIGM

fanless In-Vehicle Computer



JHCTECH

About JHCTECH

JHCTECH was established in Shenzhen, China, in April 2002, and it has become an intelligent IoT system supplier with strong capabilities in R&D, production, sales and service.

Relying on its rich industry experiences and following the strategy of "Proactive Innovation and Intelligent Manufacturing Based in China", JHCTECH has been focusing on the development and production of industrial computers and system application platforms. Its diversified products and services include the industrial tablet computers, industrial touch monitors, embedded box computers, single-board computers, etc., as well as customized solutions focusing on industry applications and AI-enabled value-added services. Its products have passed the CE, FCC, E-Mark, EN50155 and other safety regulations and industry certifications, and are widely used in many areas including the Industrial Internet of Things (IIoT), Intelligent Transportation System (ITS), Smart Security, Energy and Environmental Protection, and Biological Safety. JHCTECH has built a solid foundation for the businesses of Intelligent IoT and Edge Computing.

Harmony is invaluable, sincerity is the foundation. JHCTECH serves customers with the core values of integrity, gratitude, and responsibility in maximizing values for the society with technological innovation. Adhering to the business philosophy of "focus on the industry, specialize in products, and excel in services", do not lose hope if one's fail, but strive to become a role model of smart ecological commercial civilization that keeps the integrity, emphasizes quality, be courageous, seeks win-win outcome, and dedicated to building a competitive international brand!

Brand strategy : IOT Computer Connecting the Dots

Business philosophy : Focus on the industry, specialize in products, and excel in services.

Strategic slogan : Promote the industry to the world.

Core values : Integrity, gratitude, and responsibility.

Corporate Spirit : Humility, loyalty, innovation, seriousness, solidarity, learning, perseverance

Corporate Mission : Committed to building a smarter earth and a smarter tomorrow.

Corporate Vision : Better lose than to lose integrity. Become a model of smart IoT ecological commercial civilization that keeps integrity, emphasizes quality, be courageous, and seeks win-win outcomes.

Eight corporate values:

1. Value: Create maximum value for users with the help of technological innovation.
2. Strive: Adhere to long-termism, hard work, and savor the joy of work.
3. Spirit: All methodologies are measured by core values and corporate spirit.
4. Learning: Learning is vital as all manifestation are ultimately the reflection of ability.
5. Team: The interest of the team is of the highest interest, and the individual must obey the organization.
6. Action: The criterion of success is goal pursuit, efficiency and action are the keys
7. Affection: Be empathy, not egalitarianism and oppose opportunism
8. Win-Win: Connect the symbiosis, achieve more, and brings benefit to the society.

APPLICATION



Rail transport

01 Product Listing

03 SIGM-2650
Fanless In-Vehicle Computer

05 SIGM-3250
Fanless In-Vehicle Computer

07 SIGM-3251
Fanless In-vehicle Computer with AI Chipset





APPLICATION

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Special vehicle
Engineering vehicle



SIGM-2650

SIGM-3250

SIGM-3251

System

CPU	Intel® Apollo lake E3940 CPU, 4 Cores, 4 Threads, up to 1.8GHz, 2 MB L2, TDP 9.5W	Intel® Skylake/Kabylake-U CPU i3/i7 2 Cores , 4 Threads	Intel® Skylake/Kabylake-U CPU i3/i7 2 Cores , 4 Threads MLU220 8TOPS(INT8),4GB Ram, TDP8.5W
RAM	1*DDR3L, 1866MHz, onboard 4GB+1*SODIMM, max 8GB	DDR4, 2133MHz, onboard 4/8GB+1*SODIMM, max 16GB	DDR4, 2133MHz, onboard 4/8GB+1*LPDDR4 4GB, max 16GB
Graphics	Intel Gen. 9 HD Graphic 500, DP: 4096*2160@60Hz, Smart Display: 1920*1200@60Hz, VGA: 1920*1200@60Hz, support 3 display	CPU integrated Intel Gen. 9 HD Graphics, DP: 4096*2304@60Hz, Smart Display: 1920*1200@60Hz, VGA: 1920*1200@60Hz, support 3 independent display	CPU integrated Intel Gen. 9 HD Graphics, DP: 4096*2304@60Hz, VGA: 1920*1200@60Hz, support 2 independent displays

I/O Interfaces

LAN	2*Intel I210AT PCIe Gig. Ethernet, M12 connector, with POE function, support 802.3af(15.4W)	6*Intel I210AT PCIe Gig. Ethernet, M12 connectors, 4 of which have POE function, 802.3af(15.4W)	4*Intel I210AT PCIe Gig. Ethernet, 4*M12 connector 1*Intel I210IS PCIe Gig. Ethernet, 1*SFP
USB	2* USB3.0; 1*USB2.0 ; 2*USB2.0 (M12)	2* USB3.0; 1*USB2.0 ; 2*USB2.0 (M12)	3*USB3.0; 1*USB2.0; 2*USB2.0 (M12)
Display	1*DP+1*VGA+1*Smart Display	1*DP+1*VGA+1*Smart Display	1*DP+1*VGA
Audio	optional support Realtek ALC662VD audio, Audio out and MIC	optional support Realtek ALC662VD audio, Audio outand MIC	Optional support Realtek ALC662VD audio, Audio out and MIC
Serial port	1*RS232 isolated (DB9 male connector), 1*RS485 isolated (DB9 male connector), optional 2*CAN 2.0 (DB9 male connector)	1*RS232 isolated (DB9 male connector), 1*RS485 isolated (DB9 male connector), optional 2*CAN 2.0 (DB9 male connector)	1*RS232/RS422/RS485 DB9 (2.5KV opto-isolator), 2*RS232 DB9 (2.5KV opto-isolator), 1* RS232/485 DB9(2.5KV opto-isolator)
DIO	4-ch input/4-ch output, isolated (DB9), 2.5KV opto-isolator input(H: 5-24V, L: 0-1.5V), opto-isolator output (200mA)	4-ch input/4-ch output, isolated (DB9), 2.5KV opto-isolator input (H: 5-24V, L: 0-1.5V) , opto-isolator output (200mA)	8-bit DIO, programmable TTL signal

Storage

Storage	1*2.5" HDD SATA bay; 1*mSATA full height card (SATA+USB)	1*2.5" HDD SATA bay; 1*mSATA full height card (SATA+USB)	1*2.5" HDD SATA bay; 1*mSATA full height card(SATA+USB)
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Expansion

Expansion Port	2*Mini PCIe, with dual SIM slot, support dual 4G LTE/Wifi/BT/GPS 1*Mini PCIe, optional mSATA 1*Mini PCIe with USB signal, When using 2*CAN, this slot is occupied	2*Mini PCIe, with dual SIM slot, support dual 4G LTE/Wifi/BT/GPS 1*Mini PCIe, optional mSATA 1*Mini PCIe with USB signal, When using 2*CAN, this slot is occupied	2*Mini PCIe, with dual SIM slot, support dual 4G LTE/Wifi/BT/GPS 1*Mini PCIe with USB signal, optional mSATA 1*Mini PCIe with USB signal
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Power Supply

Input voltage & Power Consumption	DC 9~36V input, 5-pin terminal port M12 (S001) Optional Railway power module, DC 48/72/110V input, 4-pin connector M12 (S002) consumption: 20.4W (E3940 CPU, 4G DDR3L, 128G SSD)	Railway power module, DC 48/72/110V input, 4-pin connector M12 (S00X), DC 9~36V input, 5-pin terminal port M12 (T00X) consumption: 28W (I5-6200U, 8GB)	Railway power module, DC 9~36V input, 4-pin connector (M12), consumption: 38W (I5-6500U CPU/8G DDR4)
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Mechanical

Structure	Aluminum chassis, SGCC frame	Aluminum chassis, stainless steel frame	Aluminum chassis, stainless steel frame
Dimension (W*H*D)	250*154*72mm	270*154*64.5mm	270*154*82.4mm
Net weight	3.10KG	3.2KG	3.93KG

Environmental

Operating temperature	EN50155 TX: -40~70°C(Operating10min in 85°C)	EN50155 TX: -40~70°C(Operating10min in 85°C)	EN50155 TX: -40~70°C
Storage temperature	-40°C~85°C	-40°C~85°C	-40°C~85°C
Storage humidity	10~90%@40°C, non-condensing	10~90%@40°C, non-condensing	10~90%@40°C, non-condensing
Vibration	MIL-STD-801G, EN50155	MIL-STD-801G, EN50155	MIL-STD-810G, EN50155
Shock	MIL-STD-801G, EN50155	MIL-STD-801G, EN50155	MIL-STD-810G, EN50155
Certification /EMC	EN50155, E-Mark, CE/FCC Class B	EN50155, E-Mark, CE/FCC Class B	EN50155, CE/FCC Class B

OS

	Windows 10, Linux, Wind River VxWorks	Windows 7, Windows 10, Linux Fedora Ubuntu (Note: 7th gen Intel® Kabylake-U processor does not support Windows 7)	Linux Fedora Ubuntu
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Medical vehicle



Police vehicle

SIGM-2650

Intel® Apollo Lake E3940 CPU, 2*POE, 2*USB3.0, 2*COM, 8-bit isolated DIO, DC 9~36 wide voltage power supply, ITPS power management, Railway standard power input 48/72/110V

Key Specification

- Aluminum chassis, Fanless & Rugged design
- Intel® Apollo Lake E3940 CPU
- DDR3L up to 1866MHz, On-board+SODIMM, max 8GB
- 1*DP, 1*VGA, 1*Smart Display, 3 independent displays interface
- 2*GbE LAN(with POE 802.3af), 5*USB
- 2* isolation COM, 8-bit Iso. DIO, optional 2*CAN
- 4*Mini PCIe(1 optional mSATA), support GPS/WiFi/LTE/4G
- EN50155, E-Mark certification
- Optional support TPM2.0 security encryption, DC 9~36 wide voltage power supply, ITPS power management
- Optional railway standard power input DC 48/72/110V(±40%)



Product Overview

SIGM-2650 is a fanless rugged in-vehicle computer, equipped with Intel® Apollo Lake E3940 processor, supporting dual 4G VPN/Wifi/BT/GPS and other wireless functions. It is also equipped with ITPS vehicle power management, optional railway power input DC 48/72/110V. Certified with E-mark and EN50155, Sigm-2650 is highly suitable for road vehicle and rail vehicle industry applications.

Product Parameters

System

CPU	Intel® Apollo lake E3940 CPU, 4 Cores, 4 Threads, up to 1.8GHz, 2 MB L2, TDP 9.5W
RAM	1*DDR3L, 1866MHz, 1 onboard storage 4GB+1*SODIMM, max 8GB
Expansion	2*Mini PCIe, with dual SIM slot, support dual 4GLTE/Wifi/BT/GPS 1*Mini PCIe, optional mSATA 1*Mini PCIe with USB signal, when 2*CAN in use, this Mini-PCIe slot will be occupied
Graphics	Intel Gen. 9 HD Graphic 500, DP max resolution 4096*2160@60Hz, Smart Display max resolution 1920*1200@60Hz, VGA max resolution 1920*1200@60Hz, support 3 displays
Audio	optional support Realtek ALC662VD audio, Audio out and MIC
LAN	2*Intel I210AT PCIe Gig. Ethernet, M12, with POE function, support 802.3af(15.4W)
Storage	1*2.5" HDD SATA bay; 1*mSATA full height card (SATA+USB)
I/O Port	2*Gig-LAN, with POE 802.3af (M12) 2*USB3.0 (Type A); 1*USB2.0 (Type A); 2*USB2.0 (M12) 4-ch input/4-ch output, isolated (DB9 male connector), 2*SIM slot 1*RS232 isolated (DB9 male connector), 1*RS485 isolated (DB9 male connector), optional 2*CAN 2.0(DB9 male connector) 1*Audio-out and 1*MIC (3.5mm audio port) 1*DP+1*VGA+1*Smart Display
LED	1*power LED, 1*HDD LED, 3*CPU temperature level LED (Red as warning, Yellow as high temperature, Green as normal temperature) 3*Network connection status LED (ACT/LINK)
Switches	1*power button, 1*remote switch(2-pin terminal), 1*AT/ATX switch, 1*Clear CMOS switch, 1*ACC/Family switch

Watchdog timer	Programmable timeout interruption period or system reset from 1 to 255 secs
Power requirement	DC 9~36V input, 5-pin terminal port M12 (S001) Optional Railway power module, DC 48/72/110V input, 4-pin terminal port M12 (S002), Consumption: 20.4W (E3940 CPU, 4G DDR3L, 128G SSD)
OS	Windows 10, Linux, Wind River VxWorks

Mechanical

Structure	Aluminum chassis, SGCCframe
Color	Silver gray
Installation Method	Desktop installation
Dimension (W*H*D)	250*154*72mm
Net weight	3.10KG

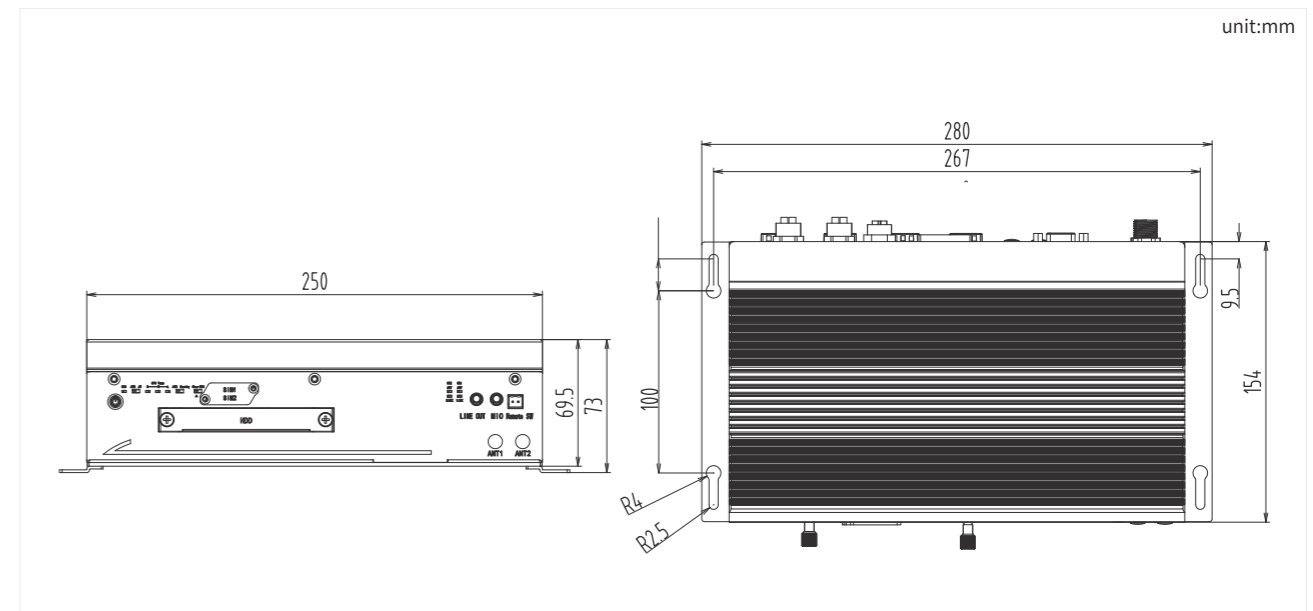
Environmental

Operating temperature	EN50155 TX: -40~70°C(Operating 10minutes in 85°C)
Storage temperature	-40°C~85°C
Storage humidity	10~90%@40°C, Non-condensing
Vibration	MIL-STD-801G, EN50155
Shock	MIL-STD-801G, EN50155
Certification /EMC	EN50155, E-Mark, CE/FCC Class B

I/O View



Dimensions



Ordering Information

Model	Processor	Specification
SIGM-2650/S001	Intel® Apollo Lake E3940 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, optional Audio out, Mic, 8-bit isolated DIO, 1*2.5" SATA drive bay 1*mSATA, DC 9~36V, ITPS
SIGM-2650/S002	Intel® Apollo Lake E3940 CPU	4GB+1*SODIMM DDR3L, 2*POE, 4*USB3.0, 3*USB2.0, 2*COM, 3*Mini PCIe, 1*Smart Display, 1*DP, 1*VGA, optional Audio out, Mic, 8-bit isolated DIO, 1*2.5" SATA drive bay, 1*mSATA, DC 48/72/110V
M12A-5P DC Cable		DC cable with M12 A-Code Female 5 pin connector to bare wire, PVC Multicore Cable, 100cm
M12A-4P DC Cable		DC cable with M12 A-Code Female 4pin connector to bare wire, PVC Multicore Cable, 100cm
M12A-8P USB Cable		USB cable with M12 A-Code Male 8pin connector to 2*Type A with dual M3 ear nut-hole, PVC Multicore Cable, 50cm
M12X-8P LAN/POE Cable		Internet cable with M12 X-Code Male 8 pin connector to RJ45 crystal head connector, PVC Multicore Cable, 180cm
PA-60DC12-M12A-5P		AC/DC power adapter with M12 A-Code Female 5 pin connector, DC12V@5A 60W (non LSZH cable, no in-vehicle certification)

SIGM-3250

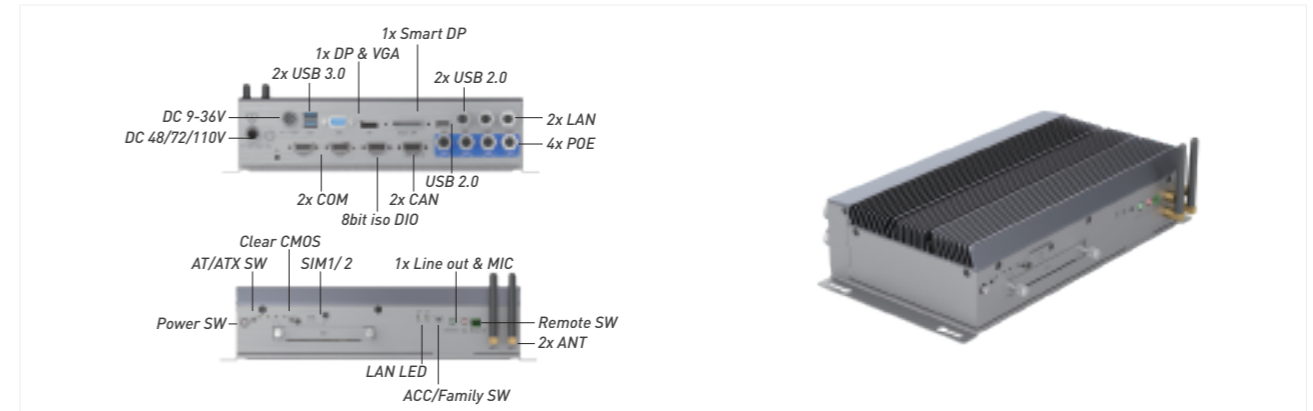
Intel® Skylake/Kabylake-U CPU, 2*LAN, 4*POE, 2*USB3.0, DP, VGA, Smart Display, 2* isolation COM, 8-bit isolated DIO, EN50155 certification

Key Specification

- Aluminum chassis, Fanless & Rugged design
- Intel® Skylake/Kabylake-U CPU
- 2-Ch DDR4, On-board 4/8GB+SODIMM, max 16GB
- 1*DP, 1*VGA, 1*Smart Display, 3 displays
- 2*LAN, 4*POE, 5*USB, Built-in dongle interface
- 2*isolation COM, 8-bit Iso. DIO, optional 2*CAN
- 4*Mini PCIe(1 optional mSATA), support GPS/WiFi/LTE/4G
- EN50155, E-Mark certification, optional support TPM2.0 security encryption,
- Railway standard power input DC 48/72/110V(±40%)
- optional DC 9~36 Wide voltage power supply, with ITPS power management



I/O View



Product Overview

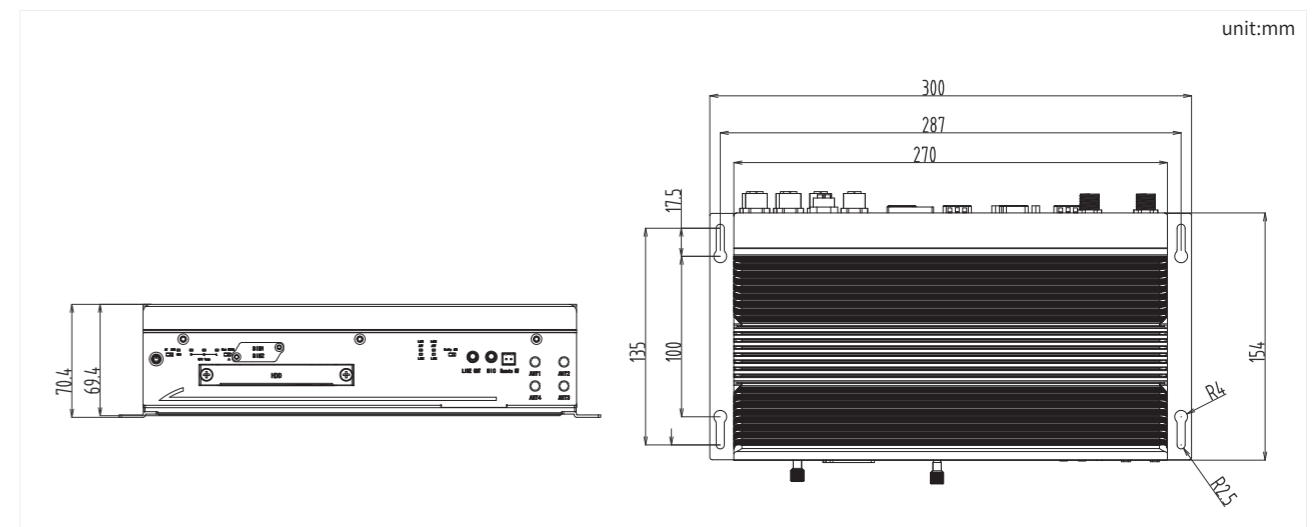
SIGM-3250 is a fanless rugged in-vehicle computer, powered by Intel® Skylake/Kabylake-U processor, supports dual 4G VPN/Wifi/BT/GPS and other wireless functions, DC 9~36V wide voltage power supply, ITPS power management and optional railway power input DC48/72/110V. Certified with E-mark and EN50155 , SIGM-3250 is extremely suitable for road vehicles and intelligent rail transit system industry applications.

Product Parameters

System

CPU	Intel® Skylake/Kabylake-U CPU Core i3/i5/i7 series CPU	Watchdog timer	Programmable timeout interruption period or system reset from 1 to 255 secs
RAM	DDR4, 2133MHz, onboard 4/8GB+1*SODIMM, max 16GB	Power Requirement	Railway power module 48V/72V/110V input, 4-pin connector M12(S00X), DC 9~36V input, 5-pin connector M12 (T00X) Consumption: 12V/2.33A(I5-6200U, 8GB)
Expansion	2*Mini PCIe, with dual SIM slot, support dual 4GLTE/Wifi/BT/GPS 1*Mini PCIe, optional mSATA 1*Mini PCIe with USB signal, when 2*CAN is in use, this Mini-PCIe slot is occupied	OS	Windows 7, Windows 10, Linux Fedora Ubuntu (Note: 7th gen Intel® Kabylake-U processor does not support Windows 7)
Graphics	Intel Gen. 9 HD Graphic , DP: 4096*2304@60Hz, Smart Display: 1920*1200@60Hz, VGA: 1920*1200@60Hz, support 3 independent displays	Mechanical	
Audio	optional support Realtek ALC662VD audio, Audio out and MIC	Structure	Aluminum chassis, stainless steel frame
LAN	6*Intel I210AT PCIe Gig. Ethernet, M12, 4 with POE functions, support 802.3af(15.4W)	Color	Silver grey
Storage	1*2.5" HDD SATA bay, 1*mSATA full size card (SATA+USB) 2*Gig-LAN (M12) , 4*Gig-LAN with POE 802.3af (M12) 2*USB3.0 (Type A); 1*USB2.0 (Type A); 2*USB2.0 (M12)	Installation method	Desktop Installation
I/O Port	4-ch input/4-ch output, isolated (DB9 male connector), 2*SIM slot 1*RS232 isolated (DB9 male connector), 1*RS485 isolated (DB9 male connector), optional 2*CAN 2.0(DB9 male connector) 1*Audio-out and 1*MIC (3.5mm audio port) 1*DP+1*VGA+1*Smart Display	Dimension (W*H*D)	270*154*64.5mm
LED	1*power LED, 1*HDD LED, 3*CPU temperature level LED (Red as warning, Yellow as high temperature, Green as normal temperature) 3*Network connection status LED (ACT/LINK)	Net weight	3.2KG
Switches	1*switch, 1*remote switch(2-pin terminal), 1*AT/ATX switch, 1*Clear CMOS switch, 1*ACC/Family switch	Environmental	
		Operating temperature	EN50155 TX: -40~70°C(Operating 10 minutes in 85°C)
		Storage temperature	-40°C~85°C
		Storage Humidity	10~90%@40°C, Non-condensing
		Vibration	MIL-STD-801G, EN50155
		Shock	MIL-STD-801G, EN50155
		Certification /EMC	EN50155, E-Mark, CE/FCC Class B

Dimensions



Ordering Information

Model	Processor	Specification
SIGM-3250/S001	Core I3-6100U/I3-7100U	DDR3L, 2*LAN, 4*POE, 2*USB3.0, 3*USB2.0, 2* isolation COM, 3*Mini PCIe, 1*Smart Display, 1*DP, 1*VGA, optional Audio out, Mic, 8-bit isolated DIO, 1*2.5" SATA drive bay, 1*mSATA, DC 48/72/110V
SIGM-3250/S002	Core I5-6200U/I5-7200U	
SIGM-3250/S003	Core I7-6500U/I7-7500U	
SIGM-3250/T001	Core I3-6100U/I3-7100U	DDR3L, 2*LAN, 4*POE, 2*USB3.0, 3*USB2.0, 2* isolated COM, 3*Mini PCIe, 1*Smart Display, 1*DP, 1*VGA, optional Audio out, Mic, 8-bit isolated DIO, 1*2.5" SATA drive bay, 1*mSATA, DC 9~36V w/ITPS
SIGM-3250/T002	Core I5-6200U/I5-7200U	
SIGM-3250/T003	Core I7-6500U/I7-7500U	
M12A-5P DC Cable		DC cable with M12 A-Code Female 5 pin connector to bare wire, PVC Multicore Cable, 100cm
M12A-4P DC Cable		DC cable with M12 A-Code Female 4 pin connector to bare wire, PVC Multicore Cable, 100cm
M12A-8P USB Cable		USB cable with M12 A-Code Male 8 pin connector to 2*Type A with dual M3 ear nut-hole, PVC Multicore Cable, 50cm
M12X-8P LAN/POE Cable		Internet cable with M12 X-Code Male 8 pin connector to RJ45 crystal head connector, PVC Multicore Cable, 180cm
PA-60DC12-M12A-5P		AC/DC power adapter with M12 A-Code Female 5 pin connector, DC12V@5A 60W (non LSZH cable, no in-vehicle certification)
PA-120DC19-M12A-5P		AC/DC power adapter with M12 A-Code Female 5 pin connector, DC19V@6.32A 120W (non LSZH cable, no in-vehicle certification)

SIGM-3251

Intel® Skylake/Kabylake-U CPU, MLU220(8TOPS), LPDDR4 4GB, 4*LAN, 1*SFP, 5*USB, DP, VGA, 4* isolated COM, 8-bit programmable DIO, EN50155 certification

Key Specification

- All-in-One Rugged structure design, aluminum chassis with fanless heat dissipation
- Intel® Skylake/Kabylake-U CPU
- 2-Ch DDR4, On-board 4GB+LPDDR4 4GB
- Onboard Cambrian MLU220 AI acceleration chipset, AI computing power acceleration 8TOPS(INT8)
- 1*DP, 1*VGA,dual display interface
- 4*LAN, 1*SFP, 6*USB, built-in dongle interface
- 4* isolated COM, 8-bit programmable DIO with LED
- 4*Mini PCIe(1 optional mSATA), support GPS/WiFi/LTE/4G
- EN50155 certification, optional support TPM2.0 secure encryption,
- Railway power input DC 9-36V with wide voltage power supply



Product Overview

SIGM-3251 is a fanless rugged in-vehicle computer, equipped with Intel® Skylake /Kabylake-U processor and onboard Cambrian MLU220 AI acceleration chip, supports dual 4G full Netcom VPN/Wifi/BT/GPS and other wireless functions.It is also equipped with railway power input DC 9~36V with wide voltage power supply,has earned the EN50155 railway standard certification, is highly suitable for road vehicles, intelligent rail transit system industry applications.

Product Parameters

System

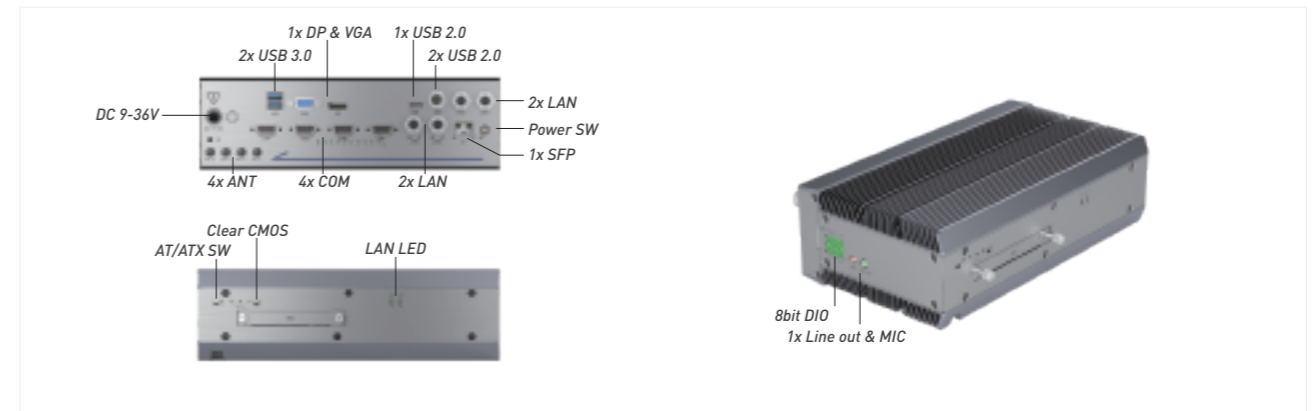
CPU	Intel® Skylake/Kabylake-U CPU Core i3/i5/i7 series CPU
AI Chipset	MLU220 8TOPS(INT8),4GB RAM, TDP8.5W
RAM	DDR4, 2133MHz, 1 onboard storage 4/8GB+1*LPDDR4 4GB, max 16GB
Expansion	2*Mini PCIe, with dual SIM slot, support dual 4GLTE/Wifi/BT/GPS 1*Mini PCIe, with USB signal, optional mSATA 1*Mini PCIe, with USB signal
Graphics	Intel Gen. 9 HD Graphic , DP: 4096*2304@60Hz, VGA: 1920*1200@60Hz, support 2 independent displays
Audio	optional support Realtek ALC662VD audio, Audio out and MIC
LAN	4*Intel I210AT PCIe Gig. Ethernet, 4*M12 1*Intel I210IS PCIe Gig. Ethernet, 1*SFP
Storage	1*2.5" HDD SATA bay; 1*mSATA full size card (SATA+USB) 4*Gig-LAN (4*M12), 1*SFP 3*USB3.0 (Type A); 1*USB2.0 (Type A); 2*USB2.0 (M12) 8-bit programmable DIO (2*5Pin Phoenix terminal) , 1*Audio-out and 1*MIC(3.5mm audio port)
I/O Port	1*RS232/RS422/RS485 DB9 (2.5KV opto-isolator), 2*RS232 DB9 (2.5KV opto-isolator), 1* RS232/485 DB9(2.5KV opto-isolator) 2*SIM slot,1*DP+1*VGA
LED	1* power LED, 1*HDD LED, 3*CPU temperature level LED (Red as warning, Yellow as high temperature, Green as normal temperature) 3*Network connection status LED (ACT/LINK) , 10*red,yellow and green non-flash LED

Switches	1*power button, 1*remote switch(2-pin terminal), 1*AT/ATX switch, 1*Clear CMOS switch
Watchdog timer	Programmable timeout interruption period or system reset from 1 to 255 secs
Power Requirement	Railway power module 9-36V input, 4-pin terminal port(M12), consumption: 12V/3.14A(I5-6500U CPU/8G DDR4)
OS	Linux Fedora Ubuntu

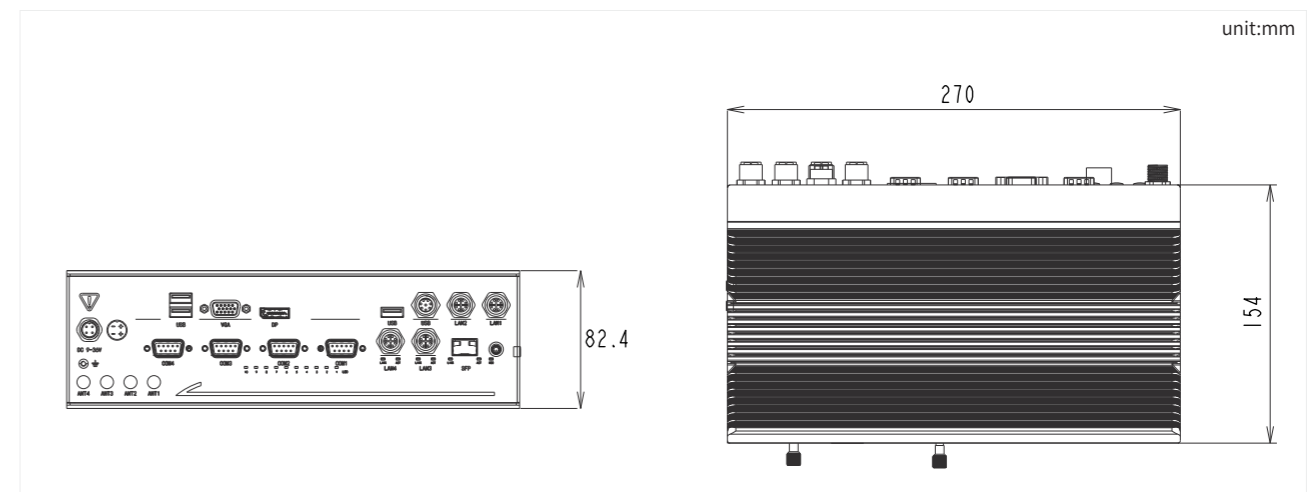
Mechanical

Structure	Aluminum chassis, stainless steel frame
Color	Silver gray
Installation Method	Desktop installation
Dimension (W*H*D)	270*154*82.4mm
Netweight	3.93KG
Environmental	
Operating temperature	EN50155 TX: -40~70°C
Storage temperature	-40°C~85°C
Storage humidity	10~90%@40°C, Non-condensing
Vibration	MIL-STD-810G, EN50155
Shock	MIL-STD-810G, EN50155
Certification /EMC	EN50155, CE/FCC Class B

I/O View



Dimensions



Ordering information

Model	Processor	Specifications
SIGM-3251/S001	Core I3-6100U/I3-7100U	MLU220(8TOPS), 4GB+1*LPDDR4 4GB, 4*LAN,1*SFP, 3*USB3.0, 3*USB2.0, 4*isolated COM, 3*Mini PCIe, 1*DP, 1*VGA, optional Audio out, Mic, 8-bit DIO, 1*2.5" SATA drive bay, 1*mSATA, DC 9~36V
SIGM-3251/S002	Core I5-6200U/I5-7200U	
SIGM-3251/S003	Core I7-6500U/I7-7500U	
Mounting kits		19 inch 2U rack mounting kits
M12A-5P DC Cable		DC cable with M12 A-Code Female 5 pin connector to bare wire, PVC Multicore Cable, 100cm100cm
M12A-4P DC Cable		DC cable with M12 A-Code Female 4 pin connector to bare wire, PVC Multicore Cable, 100cm
M12A-8P USB Cable		USB cable with M12 A-Code Male 8 pin connector to 2*Type A with dual M3 ear nut-hole, PVC Multicore Cable, 50cm
M12X-8P LAN/POE Cable		Internet cable with M12 X-Code Male 8 pin connector to RJ45 crystal head connector, PVC Multicore Cable, 180cm
PA-60DC12-M12A-5P		AC/DC power adapter with M12 A-Code Female 5 pin connector, DC12V@5A 60W (non LSZH cable, no in-vehicle certification)

JHCTECH IoT Computer
Connecting the Dots

Stay tuned for more innovative products!