ITA-5831

Intel® 6th Generation Core™ i Processor Fanless System; EN 50155 Compliant for Railway Applications

Features

- Intel® Core™ i7-6822EQ platform with QM170
- Fanless computer for railway vehicle applications, fully compliant with EN 50155
- Satisfies temp. standard: EN 50155 TX (-40 ~ 70 °C) and IEC 61373 body mount class B
- Compliant with EN 50121-3-2/ EN 50121-4 EMC test standard
- Ruggedized connectors (M12) used for communication and power ports
- Supports easy-swap storage module and I/O module

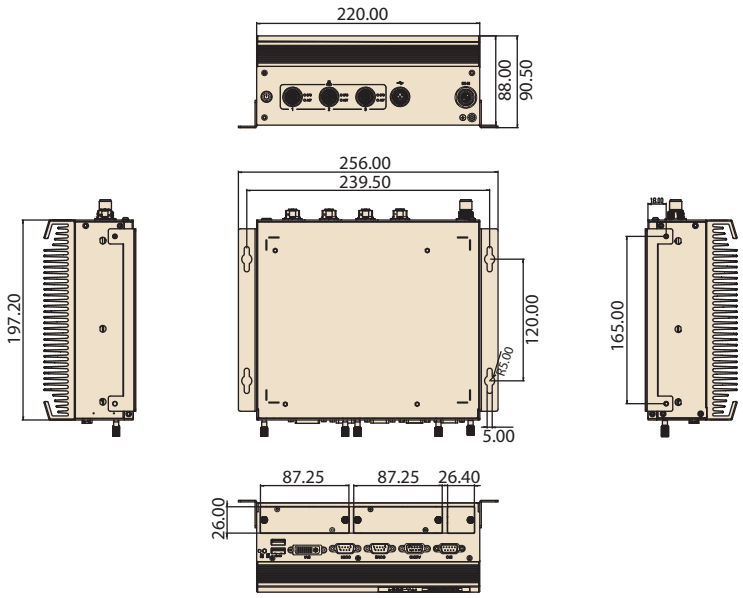
Specifications

System Chipset	CPU	Intel® Core™ i7-6822EQ	i5-6442EQ	Celeron G3902E
	Base frequency/Turbo Boost	2.0/2.8 GHz	1.9/2.7GHz	1.6 GHz/ NA
	L3 Cache	8M	6M	2M
	Cores/Threads	4C/8T	4C/4T	2C/2T
	Chipset	QM170		
	BIOS	AMI SPI 16M byte		
Memory	Technology	8GB on board memory, DDR4 2133MHz		
	SODIMM slot	1		
	Max. Capacity	Up to 16G		
Graphics	Chipset	Intel Integrated Graphics GT2, Celeron with GT1		
	VRAM	Shared with system memory to 512MB (Default setting)		
	Display	DVI-I: 1920 x 1200 @ 60Hz		
I/O	USB	2 x USB3.0 with Type A 1 x USB2.0 with M12 A-coded(F) 4-pin		
	Serial Port	2 x DB9, RS-232/422/485 with 2KV Isolation, supports auto-flow control		
	DIO	1 x DB9, 4-bit DI/ 4-bit DO with 2KV Isolation		
	Display	1 x DVI-I (Optional to DVI-D+VGA via Y cable)		
	Audio	1 x DB9, 1 x Speaker-out with 2 x 4W amplifier, 1 x Mic-in		
Ethernet	Controller	Intel i210-IT (Industrial)		
	Interface	10/100/1000 Mbps		
	Connector	Up to 3 x M12 X-coded(F)		
Storage	HDD/SSD easy-swap module	1 x ITA-EM-ST61-00A1E,supports 2 x 7mm/2.5" SSD (Default) Max to 3 x 2.5" SSD, 2 of 7mm SSD and 1 of 7mm/9.5mm SSD		
	mSATA	1 x mSATA slot on board		
Others	Mini PCIe	3 x Mini PCIe Socket (Full size)		
	SIM card	2 x SIM slot		
LED & Button	LED	1 x power, 1 x storage, 1 x alert, 1 x BATT		
	Button	1 x power on/off switch 1 x reset button		
Power	Input Voltage	DC 24V input compliant with EN50155 class S2/C1(Optional DC 48/72/110V input)		
	Connector	1 x M12 S-coded(M) 4-pin		
Watchdog Timer	Output	System reset		
	Interval	Programmable 1~255 sec/min		
Environment		Operating (with Industrial SSD/CF)		Non-operating
	Temperature	-40 ~ 70 °C		-40 ~ 85 °C
	Humidity	5% ~ 95% @ 40 °C (Non-Condensing)		
Mechanical	Dimension (W x H x D)	220 x 88 x 198.8 mm (8.65" x 3.46" x 7.83")/256 x 92 x 198.8 mm (10.08" x 3.62" x 7.83") with mounting kits		
	Install	Wall-mount by mounting bracket		
	Ingress Protection	IP40 rating, IP50 with I/O caps		
Certification	EMC	CE/FCC Class A, CCC		
	Safety	UL, CB, CCC		
EN 50155 Compliance	Ambient Temperature	EN 50155 TX (-40 ~ 70 °C)		
	Shock and Vibration	IEC 61373 body mount class B		
	Interruptions of Voltage Supply	Class S2: 10 ms interruptions		
	Supply Change Over	Class C1: at 0,6 Un during 100 ms without interruptions		
	EMC	EN 50121-3-2/EN 50121-4		

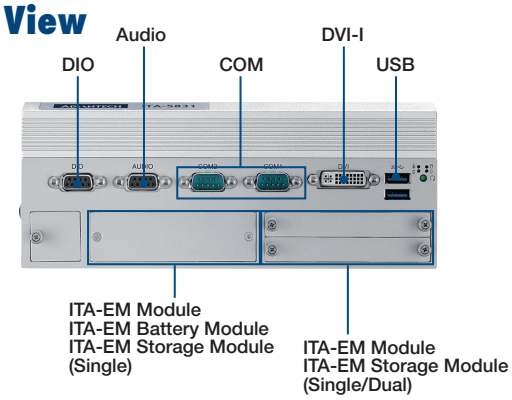
All product specifications are subject to change without notice.
Last updated: 27-Jun-2018

Dimensions

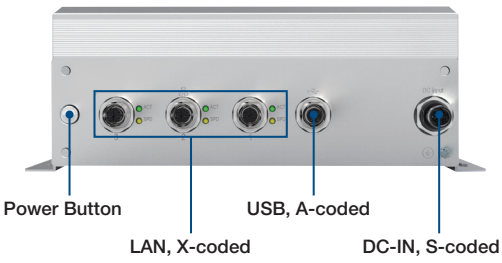
Unit: mm



Front View



Rear View



Ordering Information

Voltage (M12-S-Male)	Part Number	Processor	Ethernet (M12-X-Female)	USB2.0 (M12-A-Female)	USB3.0 (Type A)	mini-PCIe	2.5" SSD	mSATA slot	COM	Digital I/O	Display
24V_{DC}	ITA-5831-L7A1E	i7-6822EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-L5A1E	i5-6442EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-L0A1E	G3902E	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
48V_{DC}	ITA-5831-M7A1E	i7-6822EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-M5A1E	i5-6442EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
72V_{DC}	ITA-5831-H7A1E	i7-6822EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-H5A1E	i5-6442EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-H0A1E	G3902E	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
110V_{DC}	ITA-5831-S7A1E	i7-6822EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-S5A1E	i5-6442EQ	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I
	ITA-5831-S0A1E	G3902E	3	1	2	3	Up to 3	1	2 (Default)	4DI/4DO	DVI-I

ITA-5831 Series supports various I/O expansion. For more specifications, please contact your distributor or sales representative.

Optional List

Part Number	Description
ITA-EM-SR61-00A1E	Easy-swap module, 4 x RS232/422/485 with 2KV Isolation
ITA-EM-CN61-00A1E	Easy-swap module, 2 x CAN ports with 2KV Isolation
ITA-EM-PE61-00A1E Note1	2 PoE: Each port max to 7.5W @ 52V_{DC} 1 PoE: Up to 15.4W @ 52V_{DC}
ITA-EM-ST61-00A1E	Dual Easy-swap storage tray, support 2 x 2.5" SSD (7mm)
ITA-EM-ST61-10A1E	Single Easy-swap storage tray, support 1 x 2.5" SSD (7mm/9.5mm)

Part Number	Description
1700025295-31	USB cable: M12 A-code-> USB Type A,10cm
1700026432-21	LAN cable: M12 x-code-> RJ45,10cm
1700025857-21	Power cable: M12 S-code-> 2pin Terminal Block,10cm
1700004713	Y cable: DVI 29P(M) -> DVI 29P(F)+D-SUB 15P(F), 18cm

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.

AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

Uhlířská 1064/3, 710 00 Ostrava, Česká republika

obchod@autocont-ipc.cz +420 552 301 002 www.autocont-ipc.cz

PRŮMYSLOVÉ POČÍTAČE
fanless embedded PC, do racku, ...

POČÍTAČE S DISPLEJEM
panelové PC, terminály, do vozidel, ...

AUTOMATIZACE A SBĚR DAT
převodníky, karty, moduly, switche, ...

PERIFERIE A KOMPONENTY
monitory, klávesnice, desky, skříně, ...

NOTEBOOKY A TABLETY
odolné, windows, android, IP65, ...

INFORMAČNÍ KIOSKY
interiérové, venkovní, ...

MEDICÍNSKÁ TECHNIKA
počítače, tablety, LCD, klávesnice, ...

SOFTWAROVÁ ŘEŠENÍ
pro výrobu, zaměstnance, kiosky, ...

PŘEJÍT DO E-SHOPU
eshop.autocont-ipc.cz

DOPRAVA ZDARMA
Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.

PRODLOUŽENÁ ZÁRUKA
Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.

ODMĚNA ZA VĚRNOST
Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obratu.

SERVIS ON-SITE A IN-TIME
K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.