

ITA-520G

11th Gen Intel® Core™ H-Series platform EN50155 Fanless Computer; Compliant for Rolling Stock Applications



Features

- 11th Gen Intel® Core™ H-Series platform with RM590E
- Support NVIDIA Quadro MXM 3.1 Type A/B form factor GPU
- Support advanced 5G and Wi-Fi 6 wireless connectivity
- Wide range 24 - 110Vdc power input, compliant with EN 50155
- Support variety of communication modules by iDoor technology
- No RED certification

Specifications

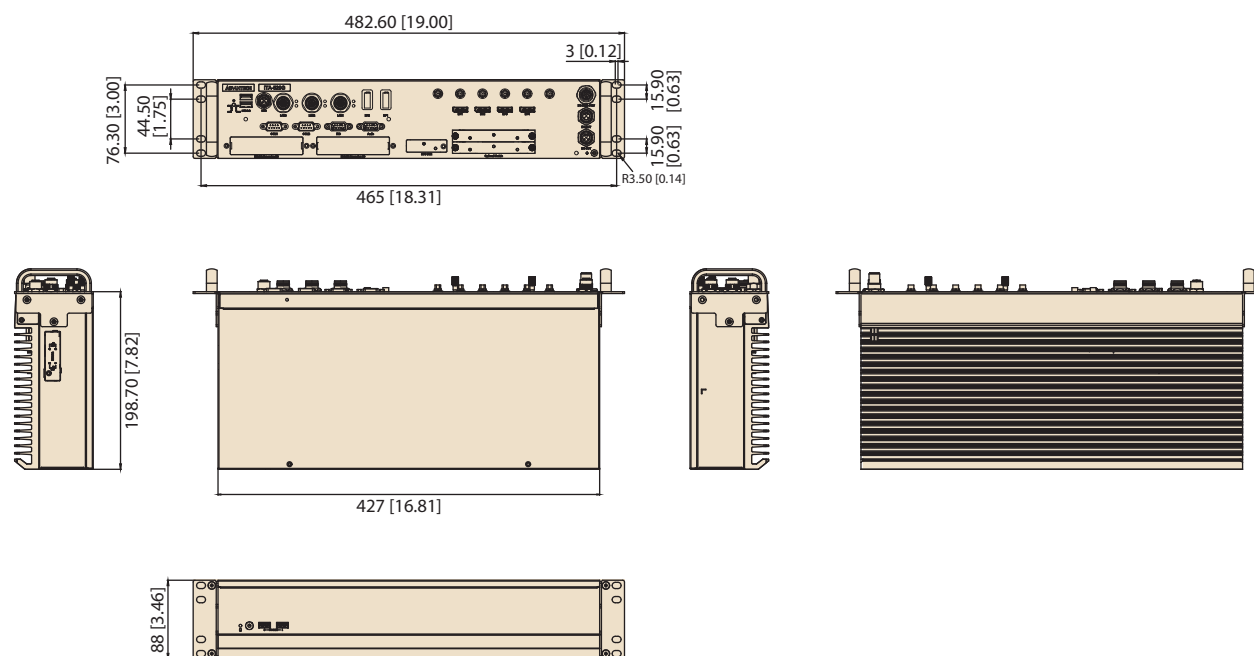
System Chipset	CPU	i7-11850HE	
	Base frequency/Turbo Boost	2.6/4.7GHz	
	L3 Cache	24M	
	Cores/Threads	8 P-core/16T	
	Chipset	RM590E	
	BIOS	AMI UEFI 256Mbit	
Memory	Technology	Dual channel DDR4 3200 MHz	
	ECC	Non-ECC	
	SO-DIMM slot	1	
	On-board RAM	16GB	
	Max. Capacity	Up to 32GB	
Security	TPM	TPM 2.0	
Graphics	Chipset	Intel® UHD Graphics for 11th Gen Intel® Processors	
	Max. Frequency	1.35 GHz	
I/O	USB	4 x USB 3.2, Type-A connectors 1 x USB 2.0, M12 A-Coded (F)	
	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	2 x DP port (max resolution up to 4096 x 2304 at 60 Hz), 4 x DP port from MXM (Discrete Mode)	
	Audio	1 x DB9, 1 x Line-out, 1 x Mic-in	
Ethernet	Controller	Intel 7 x i226-IT (Industrial-grade)	
	Transmission Speed	10/100/1000Mbps	
	Connector	7 x M12 X-Coded(F)	
Storage	SSD easy-swap tray	2 x 2.5" 7mm SSD, support RAID 0/1/5/10	
	mSATA	1 x mSATA slot	
Others	Mini PCIe	2 x Mini PCIe Socket (Full size)	
	M.2	2 x M.2 3042/3052 B+M Key / 1 x M.2 2230 A+E Key	
	PCIe	1 x PCIe16 thru. MCIO connector	
	SIM card	4 x micro SIM slot, each M.2 slot supports dual micro SIM cards	
LED & Button	LED	1 x power, 1 x storage, 1 x battery, 1 x CPU temperature alert	
	Button	1 x Power on / off switch	
Power	Input Voltage	24 - 110V _{DC} power input, compliant with EN 50155	
	Connector	1 x M12 S-coded(M) 4-pin	
	Output Voltage	24V _{DC} power output	
	Connector	2 x M12 A-coded (M) 4-pin	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1~255 sec/min	
Environment		Operating (with Industrial SSD)	Non-operating
	Temperature	-25 ~ 55 °C	-40 ~ 85 °C
	Humidity	5% ~ 95% @ 40 °C (Non-Condensing)	
Mechanical	Dimension (W x H x D)	427 x 88 x 198.7 mm/16.81 x 3.46 x 7.82 inch 482.6 x 88 x 224.3 mm/19 x 3.46 x 8.83 inch with mounting kit	
	Install	Rack-mounting	
	Ingress Protection	IP40 rating	

Specifications (Cont.)

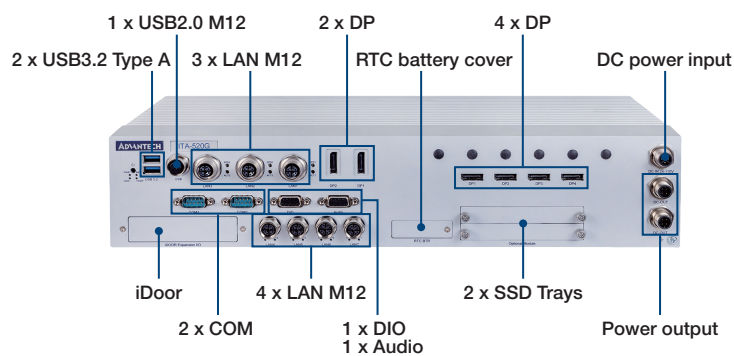
EN 50155 Compliance	Software	Operating System	Windows 10, 11, Linux
		Operating temperature classes	EN 50155 OT1 (-25 ~ 55 °C)
		Shock and Vibration	IEC 61373 body mount class B
		Interruptions of Voltage Supply	Class S2: 10 ms interruptions
		Supply Change Over	Class C1: at 0.6 Un during 100 ms without interruptions
		EMC	EN 50121-3-2

Dimensions

Unit: mm



Front View



Rear View



MXM GPU

MXM	Model Description
SKY-MXM-A500	Quadro A500 MXM 4GB Type A
SKY-MXM-A2000	Quadro A2000 MXM 8GB Type A