

TRS-100 *Multi-function Transportation System*

Preliminary

Features

- Intel® Skylake ULT
- Optional M12 connector
- 2 x RS-232/422/485
- 4 x DI/DO
- 2 x CAN Bus



Specifications

Model Name		TRS-100-ULT3-B-CE/4G-R10	TRS-100-ULT3-A-CE/4G-R10
Chassis	Color	Blue C	
	Dimensions (WxHxD) (mm)	235 x 160 x 65 (235 x 170 x 65)	
	System Fan	Fanless	
	Chassis Construction	Aluminum alloys	
Motherboard	CPU	Intel® Celeron® 3855U processor dual-core 1.6GHz (Kaby Lake Core™ i3/i5/i7)	
	System Memory	4GB on-board memory (expandable to 8GB)	
Communication	WLAN + Bluetooth	M.2 slot Wi-Fi 802.11a/b/g/n/ac + BT (optional)	
	WWAN	PCIe Mini, WCDMA/HSDPA/HSUPA (optional)	
	GPS	PCIe Mini GPS (in-vehicle model only, uBlox) (optional)	
Storage	HDD/SSD	1 x 2.5" SATA 6Gb/s HDD/SSD Bay	
	mSATA / eMMC	1 x mSATA (PCIe Mini Slot, signal from SATA2)	
	Others	1 x eMMC 5.0 8G (reserved)	
I/O Interfaces	USB 3.0	4 x USB 3.0 on board (two on front, two on rear)	
	USB 2.0	2	1 x M12 (2 x USB 2.0 signal)
	Ethernet	2 x RJ-45 PCIe GbE by Intel® I210-AT	2 x M12 GbE by Intel® I210-AT
	COM Port	2 x RS-232/422/485 (BIOS configuration) 2 x RS-232 (internal pin header)	
	Digital I/O	1 x DB-9 (8-bit Digital I/O 4 in / 4 out "+5V")	
	CAN-bus/OBD-II	1 x DB-9 CAN-bus (2 ports)	
	Display	1 x VGA, 1 x iDP (internal pin header)	
	Audio	1 x Line in / out	
	SIM	1 x SIM slot (on board)	
	Expansions	PCIe Mini	1 x Full/Half-size PCIe Mini slot (reserved for 3G/4G) 1 x Full/Half-size PCIe Mini slot (for mSATA or E-Window or GPS) 1 x M.2 slot (for Wi-Fi + BT)
LED Indicator & Button	Button	1 x Power button, 1 x Reset button (hidden), 1 x Remote Power/Reset connector (2x2 pin)	
	Indicator	1 x HDD LED, 1 x Radio Frequency LED	
Power	Power Input	9V ~ 30V DC-in 1 x 4-pin connector	9V ~ 30V DC-in 1 x M12 connector (IVS-IO-A)
	Consumption	TBD	
Reliability	Mounting	Wall mount	
	Operating Temperature	-25°C ~ 60°C with air flow	
	Storage Temperature	-25°C ~ 70°C	
	Humidity	10% ~ 90%, non-condensing	
	Protection	IP 42	
	Weight (Net/Gross)	TBD	
	Safety/EMC	CE / FCC / E-mark / EN50155 T1 / EN50121-3-2 / EN 45545-2 / DNV	
OS	Supported OS	Windows® Embedded Standard 7 / Windows® 10	
	Watchdog Timer	Software programmable support 1~255 sec. system reset	

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Industrial Computing Solutions

2

Video Capture Solutions

3

Industrial System

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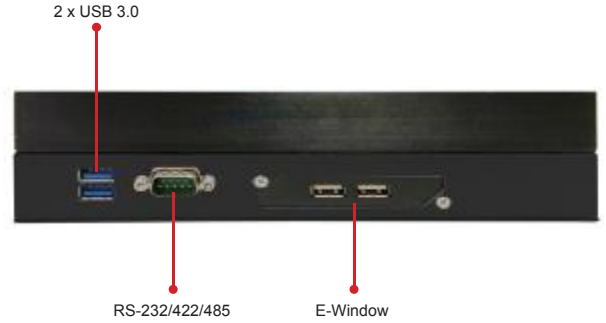
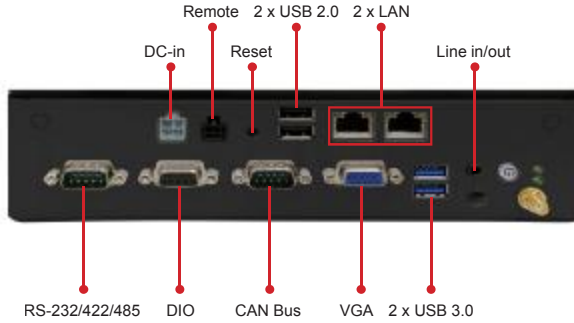
Industrial Computer Chassis

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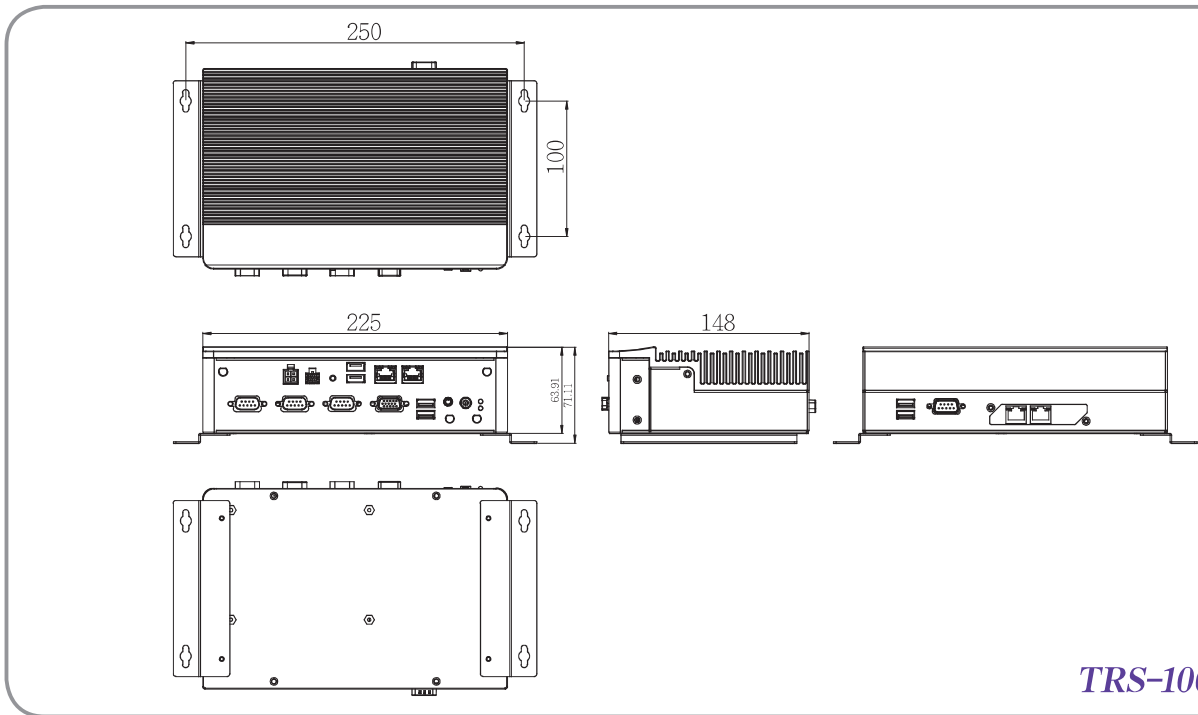
Power Supply/ Peripherals

Fully Integrated I/O
Front view

Rear View



Dimensions (Unit: mm)



Ordering Information

Part No.	Description
TRS-100-ULT3-CE-B/4G-R10	Fanless embedded system with Intel® Celeron® 3855U 1.6GHz (dual-core, TDP 15W), on-board 4GB DDR4 memory, 9 V~30V DC (M12), USB, dual Intel® PCIe GbE (M12), COM, DIO, VGA, RoHS
TRS-100-ULT3-CE-A/4G-R10	Fanless embedded system with Intel® Celeron® 3855U 1.6GHz (dual-core, TDP 15W), on-board 4GB DDR4 memory, 9 V~30V DC, USB, dual Intel® PCIe GbE, COM, DIO, VGA, RoHS

Options

Item	Part No.	Description
GPS/LTE antenna	32506-000400-100-RS	Integration Antenna, Magnetic Antenna Base+GPS/4G LTE ANTENNA, RG 174, 5000MM, AU-4S-LTE, GPS Gain:27 LTE Gain:0dBi, 50Ω, SANAV, 1575.42MHz/704-960MHz/1710-2766MHz, VSWR ≤2.0, SMA PLUG, REVERSE SMA PLUG, RoHS
Power adapter	IVIPOWER-4PIN-R10	Power adapter with 4-pin transfer cable, RoHS
ACC power cable	32002-001900-100-RS	Round cable, power cable, 3000 mm, 16 AWG, (A) MOLEX 5557-04P P=4.2, RoHS

Packing List

Item	Qty	Description
Utility CD	1	User manual and driver CD