

Intel® 11th-Gen Tigerlake U series Fanless Railway computer with EN50155 Conformity



RAILWAY COMPUTER

- Intel® 11th Gen Tiger Lake-UP3 i7-1185G7E (up to 4.40 GHz)
- 1x DDR4 SO-DIMM up to 32GB
- 1x M.2 2280 B-Key(SATA, PCIe x1), M.2 2230E-Key (PCIe, USB)
- 2x Intel® Gigabit Ethernet
- 2x USB 2.0, 4x USB 3.1 4x COM
- 8V-24V Wide Voltage Power Input
- Extended Temperature -40 to 70°C
- Optional Smart Battery for Power Back up

Specifications

SYSTEM

CPU	Intel® 11th Gen Tiger Lake-UP3 i7-1185G7E (up to 4.40 GHz)
Memory type	DDR4 3200MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
Chipset	Intel® SoC Integrated
I/O CHIPSET	Nuvoton NCT6126D (eSPI)
GRAPHICS	Intel® Iris Xe Graphics
Expansion Slot	x M.2 2280 B-Key (SATA, PCIe X1), 1 x M.2 2230 E-Key
BIOS	AMI BIOS

DISPLAY

Display	Quadruple display 2 x HDMI, Up to 4K (3840 x 2160) @30 Hz 2 x DisplayPort, Up to 4K (4096 x 2160) @60 Hz
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STORAGE

SATA	1x 2.5" SSD, Hot Swappable SSD/HDD slot 1x 2.5" SSD (optional)
M.2	1 x M.2 2280 B-Key (SATA, PCIe X1)

ETHERNET

Ethernet	2 x Intel® Gigabit Ethernet (Option: additional 2 x LAN)
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REAR I/O

Display	2 x Display Port 1.2, 2 x HDMI 1.4
Ethernet	2 x LAN with RJ45 (Option: additional 2 x LAN with Rugged M12 connectors)
USB	4 x USB 3.1 Gen 2 (10 Gbps)
HDD Tray	1 x 2.5" SSD Tray (Option: additional 1 x 2.5" SSD Tray)
DC-IN	1 x 4P Rugged M12 connector

POWER

Power Input	24 / 36 / 48 / 110 VDC with isolation
Power Management	<ul style="list-style-type: none"> Ignition On/Off control Programmable On/Off delay timer

- System wake up event
 - From Ignition switch
 - RTC timer ALARM interrupt
 - From Cellular modem module wakeup signal
- System wake up condition
 - Wake up event is triggered,
 - DC-in voltage is greater than UVP threshold
 - Timer delay is only applicable for ignition on
- System power down condition
 - Soft off, or ignition off
- Timer delay is only applicable for ignition off

OPERATING SYSTEM

OS	Windows® 10 64-bit / Linux (support by request)
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PHYSICAL

Dimension (W x D x H)	246(L) x 268.5(W) x 100 (H)mm
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Weight	5.1 Kg (TBD)
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Chassis	SECC
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Heatsink	Heatsink Aluminum Alloy, Corrosion Resistant
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Reliability	Passive Cooling Designed
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STANDARD

EN50155	<p>EN50155 compliance EN 50155: 2017</p> <ul style="list-style-type: none"> -Ambient temperature EN 50155, Class OT4 (-40~70°C), 85°C for 10 minutes -Interruptions of voltage supply class S1 -Supply change over class C1, C2 -EMC EN 50121-1: 2017, EN 50121-3-2: 2016+A1: 2019 -Shock and vibration IEC 61373 Class B -Protective coating class PC1 (PC2, by request) EN 45545-2: 2013+A1:2015
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Green Product	RoHS, WEEE compliance
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Ordering Information

IV310TU-XR24

11th-Gen Tigerlake Core™ i7-1185G7E Railway computer with EN50155 Conformity,
, DDR4 SO-DIMM, 2xHDMI,2 xDP,4x USB3.0 Extended Temp. -40 ~ 70°C,
24 V(18~30V)DC IN with isolation

IV310TU- XR36

11th-Gen Tigerlake Core™ i7-1185G7E Railway computer with EN50155 Conformity,
, DDR4 SO-DIMM, 2xHDMI,2 xDP,4x USB3.0 Extended Temp. -40 ~ 70°C,
36 V(34~60V)DC IN with isolation DC-in

IV310TU- XR11

11th-Gen Tigerlake Core™ i7-1185G7E Railway computer with EN50155 Conformity,
, DDR4 SO-DIMM, 2xHDMI,2 xDP,4x USB3.0 Extended Temp. -40 ~ 70°C,
110 V(68~140V)DC IN with isolation DC-in

Dimension

