MVC-3100

Vehicle-mounted Embedded Computer for with Intel® Elkhart Lake Celeron® J6412 Processor

Overview

MVC-3100 vehicle-mounted embedded computer features an Intel Elkhart Lake Celeron® J6412 processor, a durable aluminum enclosure, and a fanless design. It has M12 I/O connectors with IP65 protection, operates in temperatures ranging from -20 to 60°C, supports 9 to 36V DC input with optional ACC, and offers flexible expansion capabilities for WiFi, Bluetooth, LTE/5G, GPS, and CAN2.0B modules.

Features

- Rugged aluminum enclosure and fanless design
- M12 I/O connectors with IP65
- -20 to 60℃ operating temperature
- 9 to 36VDC input, optional ACC
- Flexible expansion capability for WiFi, Bluetooth, LTE/5G, GPS,CAN2.0B



Operating Temp. Power Input Fanless M12



I/O Interfaces



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MVC-3100

Specifications

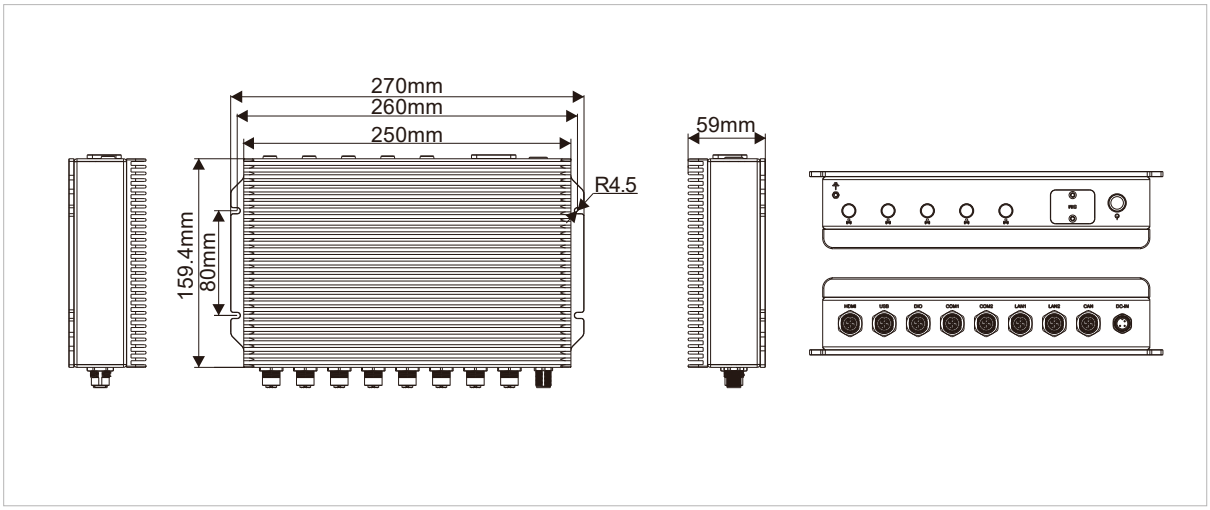
System	
CPU	Intel® Elkhart Lake Celeron® J6412 processor
Memory	1x DDR4 3200 MHz SO-DIMM up to 32GB
Storage	1x M.2 2280 SATA
TPM	BIOS supports
Watchdog Timer	SoCware Programmable supports 256 levels system reset
I/O Ports	
USB Port	2x USB2.0
Serial Port	2x RS232/485
Ethernet	2x GbE LAN
Display Port	1x HDMI
SIM Card Slot	1x SIM card slot
DIO	8x DIO with isola>on
CAN bus	2x CAN2.0B
Expansion Slot	
Mini-PCIe	1x Mini PCIe slot (for 4G LTE/5G)
M.2	1x M.2 2230 slot(for WIFI)
Antenna Hole	5x SMA Holes
RF Communication	
Wi-Fi	802.11 a/b/g/n/ac (op>onal) 802.11 a/b/g/n/ac/ax (op>onal)
Cellular	4G/LTE (op>onal)
Bluetooth	BT 4.0/5.2 (op>onal)
GNSS	GPS, Glonass, BeiDou, Galileo (op>onal)
Audio	
Audio	Line out
Power	
Bu=on	Power bu=on
DC Input	9 to 36VDC
Igni>on ON/OFF	ACC (op>onal)
Ba=ery	3350mAh/7.2V (op>onal)
Power Mode	ATX/AT
Operating System	
Windows	Windows 10, windows 11
Linux	Ubuntu
Mechanical	
Dimensions (W x D x H)	250×160×59mm (9.84×6.3×2.32 inches)
Weight (N.W.)	3.5Kg (7.72lbs)
Moun>ng	Desktop
Material	Aluminum
Environment	
Opera>ng Temperature	-20 to 60°C(-4 to 140°F)
Storage Temperature	-40 to 85°C(-40 to 185°F)
Rela>ve Humidity	5~95%, non-condensing
Certification	
EMC	CE, FCC

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DARVEEN

Dimensions



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