

Vehicle-mounted Embedded Computer 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, GPS, and CAN2.0B modules.

Features

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



Operating Temp.



Power Input



Fanless



M12

I/O Interfaces



Specifications

System	
CPU	Intel® Elkhart Lake Celeron® J6412 processor
Memory	1 x DDR4 3200 MHz SO-DIMM up to 32GB
Storage	1 x M.2 2280 SATA
TPM	BIOS supports
Watchdog Timer	Software Programmable supports 256 levels system reset
I/O Ports	
USB Port	2 x USB2.0
Serial Port	2 x RS232/485
Ethernet	2 x GbE LAN
Display Port	1 x HDMI
SIM Card Slot	1 x SIM card slot
DIO	8 x DIO with isolation
CAN bus	2 x CAN2.0B
Expansion Slot	
Mini-PCIe	1 x Mini PCIe slot (for 4G LTE)
M.2	1 x M.2 2230 slot(for WIFI)
Antenna Hole	5 x SMA Holes
RF Communication	
Wi-Fi	802.11 a/b/g/n/ac (optional) 802.11 a/b/g/n/ac/ax (optional)
Cellular	4G/LTE (optional)
Bluetooth	BT 4.0/5.2 (optional)
GNSS	GPS, Glonass, BeiDou, Galileo (optional)
Audio	
Audio	Line out
Power	
Button	Power button
DC Input	9 to 36VDC
Ignition ON/OFF	ACC (optional)
Battery	3350mAh/7.2V (optional)
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)
Mounting	Desktop
Material	Aluminum
Environment	
Operating Temperature	-20 to 60°C(-4 to 140°F)
Storage Temperature	-40 to 85°C(-40 to 185°F)
Relative Humidity	5~95%, non-condensing
Certification	
EMC	CE, FCC

Dimensions

