

Mobile PC for Molekula

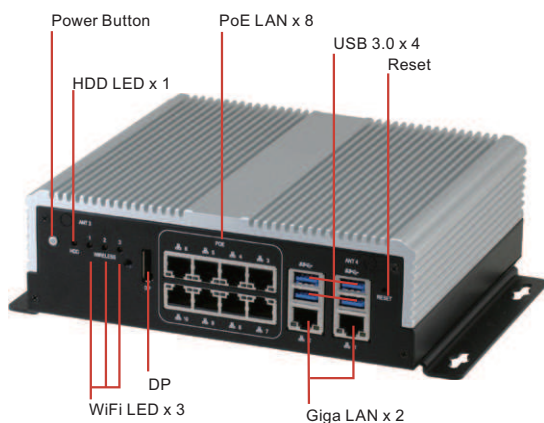


Fanless In-Vehicle Network Video Recorder with 7th Generation Intel® Processor

Front View



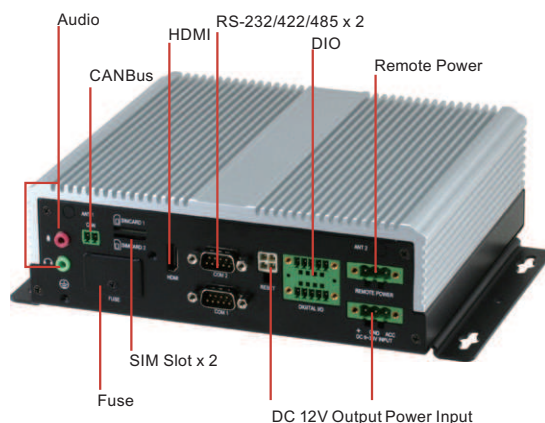
TAIWAN
EXCELLENCE
2018



- In-Vehicle Network Video Recorder Platform
- Fanless System
- 288-pin Dual-Channel DDR4 2133 MHz SODIMM x 2, up to 32 GB
- Intel® Integrated Graphics Engine Supports Two Display by HDMI x 1, DP x 1
- Realtek® Ethernet Connection x 6 w/ 4 Ports PoE (Up to 10 GbE w/ 8 Ports PoE)
- Mini-PCIe Socket x 3 (Full-size x 2 & Half-size x 1), mSATA Slot x 1 (Optional)
- Built-in CAN 2.0B. Optional OBDII Function (SAE J1939/J1708) (UART Interface)
- E-Mark Certified



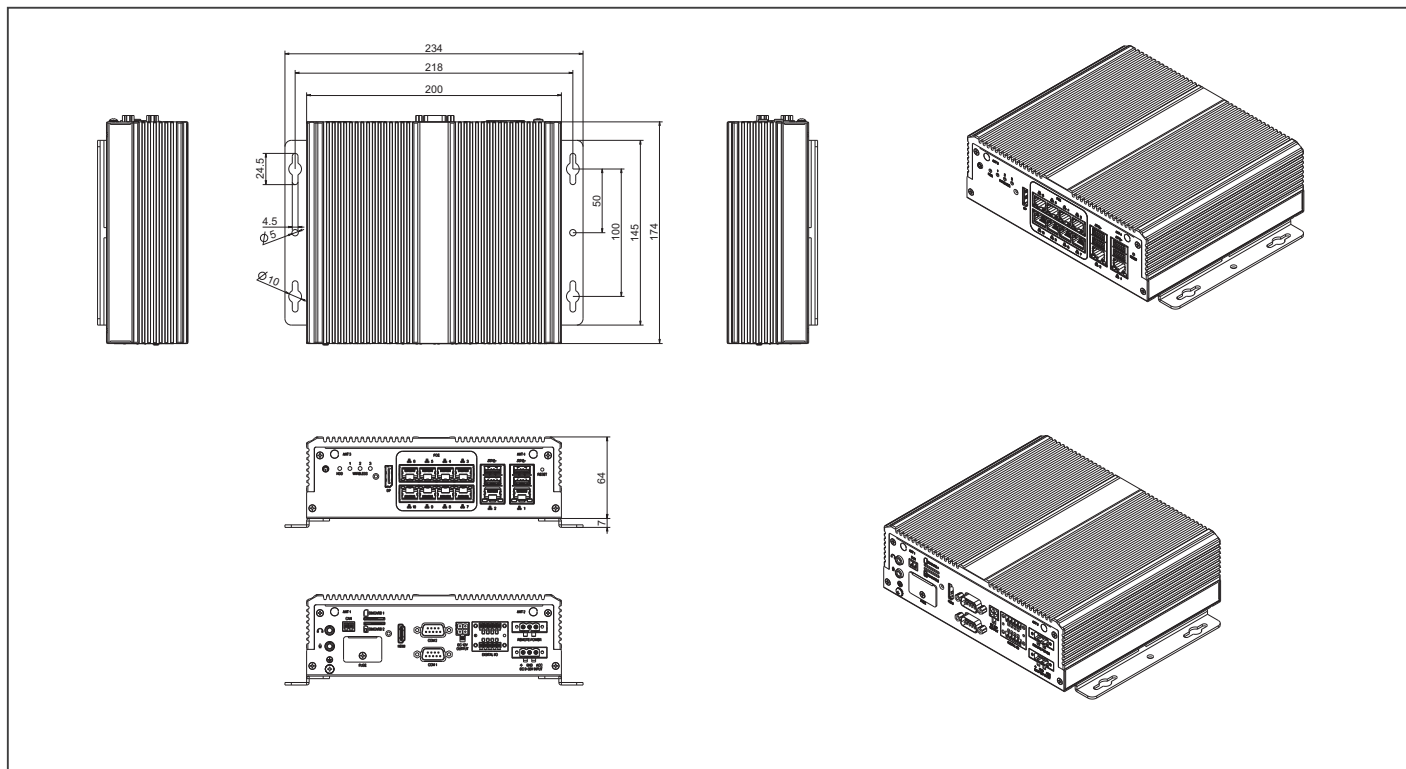
Rear View



System	
Form Factor	In-Vehicle NVR
Processor	Intel® 7th Gen. Core™ i3/i5/i7 Processor (Default: i3-7100U)
Chipset	—
Main Memory	Up to 32GB, DDR4 288-pin SODIMM
Display	HDMI x 1, DP x 1
Ethernet	10/100/1000Base-TX x 6 (Max. 10), RTL8111E
PoE Ethernet Port	4 ports (Max. 8 ports), sharing 60W of power budget for every four PoE ports.
RAID support	0/1
Expansion Slot	Mini-Card slot x 3 (USB2.0 x 2 + PCIe & USB 2.0 x 1) Built-in CAN 2.0B x 1
GPS, G-Sensor	On board (GPS/GLONASS), G Sensor
Front I/O Panel	Power Button x 1 3G/4G/WIFI LED x 3 USB3.0 x 4 SIM slot x 2 GbE port (RJ-45) x 2 PoE LAN x 4 (IEEE 802.3 at/af), Max. 8 ports
Rear I/O Panel	DC-In power x 1 Remote Power x 1 8bit DIO x 1, 4-ch digital input (Wet/dry contact with Isolation Protection 3,000 VDC) , 4-ch digital output (Compatible 5 V/TTL, 31 mA max. per channel) DC 12V Output x 1 RS-232/422/485 x 2 HDMI x 1, DP x 1 CanBus connector x 1, USB3.0 x 4, Audio Line-out x 1, Mic-In x 1
Storage	
HDD Tray	2.5" HDD Bay x 2
CF/CFast/mSATA Slot	mSATA Slot x 1 (Co-lay via SATA)
Environmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C); Project base, -40°C ~ 85°C
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	10%~80% @40°C, non-condensing
Vibration/Shock	MIL-STD-810G
Certification	CE & FCC Class A, EMARK
Power Requirement	
Power Supply	DC 10-36V, with ignition pin
Mechanical	
Removable HDD Tray	Hot swappable 2.5" HDD/SSD x 2 (Project base) via extension module
Internal System HDD Bay	2.5" HDD x 2
Dimension	6.85" x 7.87" x 2.52" (174mm x 200mm x 64mm)
Gross Weight	5.7 lb (2.6 kg)
Note	—

Dimension

Unit: mm



Ordering Information

Part Number	Chipset	RAM	Cooler	Storage	RAID Support	Display	LAN	PoE	USB	RS-232	RS-232/422/485	Expansion Slot	Form Factor	Power
Mobile PC for Molekula	Intel® i3-7100U	288-pin SODIMM	Fanless	2.5" HDD tray x 2 (Optional SKU for supporting 2.5" HDD x 1, mSATA x 1)	0/1	DP x 1, HDMI x 1	GbE x 6	4 Ports	USB3.0 x 4	—	2	Mini-Card x 3 Built-in CAN2.0B x 1	Desktop	DC 10-36V

Packing List

- Product CD
- Mobile PC for Molekula

Optional Accessories

- **1255901204**
120W Adapter, AC Input, 19V DC
- **9741909A00**
WiFi Module Kit, 802.11 a/b/g/n + BT 4.0, (Bointec DPE-909AA), with Cable & Antenna
- **17599RFA0B**
WiFi Antenna
- **1700010252**
WiFi Coaxial Cable
- **978966660G**
GPS Antenna
- **9741809000**
3G Module Kit, with Cable and Antenna, Sierra, MC8090
- **17599RFA09**
3G Antenna
- **1700010255**
3G Coaxial Cable
- **9741EC20E0**
PCIe Mini Card, 4G LTE Module Kit for Europe/Asia, Quectel, EC20-E

