

MVC-1450

Fanless Vehicle PC with Intel® Atom™ E3845



- Intel® Atom™ E3845 quad-core 1.91GHz
- Dual SIM cards + dual WWAN modules supported
- Wide operating temperature : -40°C~70°C
- Outside accessible SD and SIM slots supported
- 3 x mini-PCle sockets
- Optional uBlox GPS Module, support GPS, Glon-ass, Galileo, BeiDou and QZSS singals
- Compliant with MIL-STD-810G
- Optional CAN BUS2.0B and 4-channel CCTV
- 4 x COM, 1 x USB3.0, 2 x USB2.0, 4-in/4-out GPIO

System

CPU	Soldered onboard Intel®Atom™ processor E3845 quad-core
Chipset	Intel Atom™ processor E3845
Memory	1 x 204-pin SO-DIMM socket, supporting DDR3L 1066/1333 MHz, up to 8GB SDRAM
Graphics	Integrated Intel® HD Gen. 7 Graphics
SATA	1 x Serial ATA port with 300MB/s HDD transfer rate 1 x mSATA
Connectivity	802.11 a/b/g/n Wireless LAN Mini-card (optional)
LAN Chipset	1 x Intel® i210IT GbE controller
Watchdog Timer	1~255 levels reset

I/O	2 x RS-232/485 ports w/ DB-9 connectors, rear side 2 x RS-232 ports w/ DB-9 connectors, rear side
Serial Port	Optional : 1 x CAN BUS2.0B w/ DB-9 connector Optional : 1 x 4-ch CCTV w/ DB-9 connector
USB Port	1 x type A USB 3.0 port, front side 2 x type A USB 2.0 ports, rear side

Storage

Type	1 x 2.5" drive bay for SSD 1 x mSATA 1 x outside accessible SD socket w/ cover
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Qualification

Certification	CE, FCC Class A, E13 Mark
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Video Port	1 x DVI-D female connector, rear side 1 x VGA with DB15 female connector, rear side
LAN	1 x RJ-45 port for GbE, rear side
Digital I/O	1 x 8-bit digital I/O, 4-in/4-out w/ DB-15 Male connector, 2KV isolated protection, front side
Antenna	5 x SMA-female connectors' holes for external antennas, front side
Audio	2 x 3.5mm phone jacks for Line-out & MIC-in (2W pre-amplified), rear side
Expansion Bus	1 x Mini-PCle slot for optional WiFi/Bluetooth module 2 x Mini-PCle slot interconnected with SIM card sockets for optional HSUPA/LTE module 2 x SIM sockets (outside accessible)

Environmental

Operating Temp.	-40°C ~ 70°C (-40°F ~ 158°F), ambient w/ air flow, w/SSD
Storage Temp.	-40°C ~85 °C (-40°F ~ 185°F)
Operating Humidity	5% ~ 95% @ 70°C (non-condensing)
Vibration (SSD)	Operating: MIL-STD-810G, Method 514.6, Category 4 and EN61373 Category 1 Class B Non-operating: MIL-STD-810G, Method 514.6, Category 24 minimum integrity test
Shock (SSD)	Operating: MIL-STD-810G, Method 516.6, Procedure functional shock=20g Non-operating : MIL-STD-810G, Method 516.6, Procedure V, crash hazard shick test=75g

Power Requirement

Power Input	DC 9~36V input, w/ 3-pin terminal block
Power Consumption	Max. 30W
Power Management	Power ignition, power on/off delay controlled by software

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Weight	1.5 kg
Dimensions (W x H x D)	200 x 54 x 180 mm (7.87" x 2.13" x 7.09")

OS Support

W7 Pro / Embedded, Linux Kernel 3.1X

Ordering Information

MVC-1450	Vehicle Barebone System w/ Intel® Atom™ Quad-core E3845 SoC, w/o memory and storage
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Optional Accessories



19V/3.4A 65W AC/DC adapter kit

PAC-P065W

Optional Configuration (CTOS* Kit)



Intel® 2.5" 80GB SATAIII SSD kit

80 GB SSD



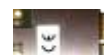
MM-31L-2G
MM-31L-4G
MM-31L-8G

Industrial-grade DDR3L-1600 2GB SDRAM
Industrial-grade DDR3L-1600 4GB SDRAM
Industrial-grade DDR3L-1600 8GB SDRAM



WiFi-AT2350

Atheros AR9462 WiFi module w/ 20cm & 30cm internal wiring



HSUPA-1450

HSUPA 3.75G module kit w/ 25cm internal wiring



GPS-1450 Kit

U-BLOX GPS Kit For ARTS-1450 w/ 25cm internal wiring



ANT-G11

1 x 3000mm 27dB SMA Remote GPS Antenna



ANT-D11

1 x Wi-Fi Dual-band 2.4G/5G antenna



ANT-H11

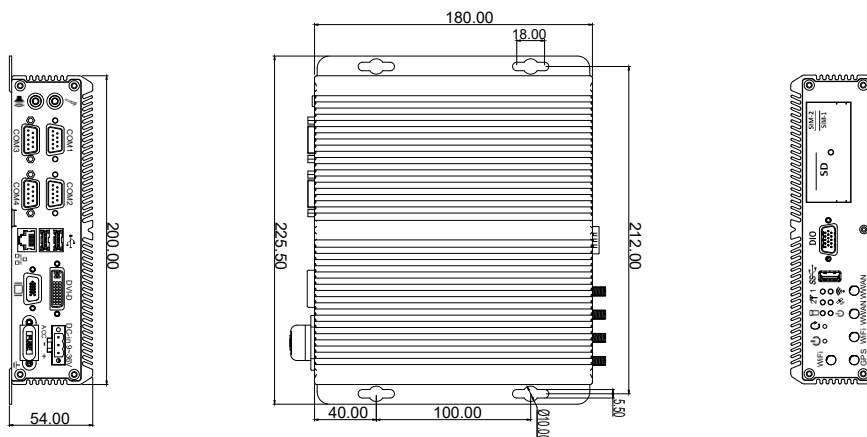
1 x 2dBi HSUPA Antenna Kit



CAN-1450

CAN BUS 2.0B kit

Dimensions



Unit:mm



Midas Touch

magic embedded

Notice: Product Specifications are subject to change without notice. / Version : MVC-1450 ·Q3 v.1.0 / Update date : 09-06-2018

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