MVS 5603-C8SK





Main Features

- Modular design for flexible I/O expansion
- Three SIM cards + dual WWAN modules support
- 8 x 10/100/1000 Mbps 802.3af PoE ports
- Built-in u-blox NEO-M8N module, optional dead reckoning support
- Intel® Core™ dual core i7-6600U/i3-6100U

- Dual removable SATA 3.0 2.5" SSD/HDD
- iButton for driver ID identification
- Built-in CAN 2.0B. Optional OBDII function (SAE J1939)
- Pattern number M531607 registered, an easy way to expand diverse I/O cards

Product Overview

 $MVS\,5603-C85K\,8-CH\,PoE\,Mobile\,NVR\,increases\,safety\,and\,security\,for\,bus\,passenger\,transportation\,with\,high\,video\,resolution\,and\,2\,removable\,extensive$ storage HDD/SSD capacity. It connects up to 8 IP cameras + PoE function providing reliable and high quality video coverage around the bus.

MVS 5603-C8SK is a modular design, it is flexible to use other kinds of expansion boards to extend different I/O functions for different applications.

MVS 5603-C8SK leverages wireless networks to simplify fleet management with capabilities such as remote, real-time video monitoring. This remote capability keeps transit fleets in service around the clock.

Vehicle data integration and diagnostics are also carried out via CAN Bus and OBDII. MIL-STD-810G for shock and vibration is designed to operate in harsh environments. Optional internal back-up battery guards against any unexpected vehicle power failure or unstable vehicle power

Specifications

• 6th generation Intel® Core™ dual core i7-6600U, 2.6GHz/i3-6100U, 2.3GHz

Memory

2-Channel 204-pin DDR3L SO-DMIM socket support 1600MHz up to 16GB, default 2GB industrial grade memory

- 2 x 2.5" SATA 3.0 removable HDD/SSD trays
- 1 x CFast

Expansion

- 1 x Full size mini-PCIe socket (USB 2.0)
- 1 x Full size mini-PCIe socket (USB 2.0 + PCIe)
- 1 x Half size mini-PCIe socket (USB 2.0 + PCIe)

GNSS and On Board Sensor

- 1 x Default U-blox NEO-M8N GNSS module for GPS/Gloness/QZSS/ Galileo/Beidou
- Optional modules with Dead Reckoning available
- Built-in G-sensor

Power over Ethernet

• 8-Port RJ45 for 10/100/1000 Mbps PoE IEEE 802.3af conformity, total 60W

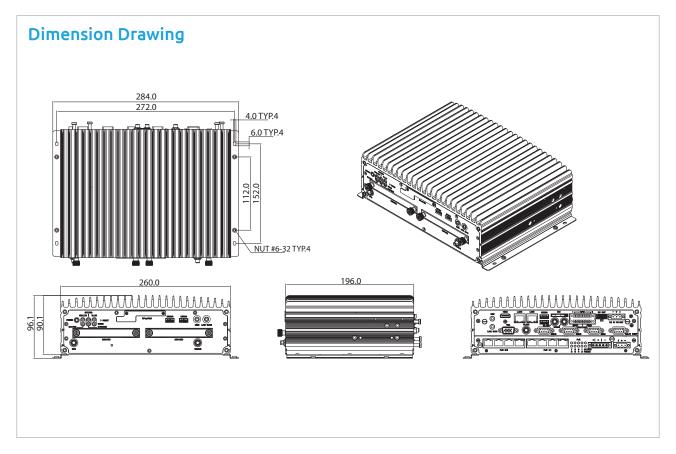
I/O Interface-Front

- 6 x LED indicators for power/storage/WLAN/WWAN/status/health
- 1 x CFast socket with cover
- 1 x Reset button
- 2 x USB type A USB 3.0 port
- 2 x Phone jacks 3.5mm for 1 x Mic-in and 1 x Line-out
- 2 x Externally accessible SIM card sockets
- 2 x Antenna holes for WWAN/WLAN/BT/GPS

I/O Interface-Rear

- 8 x RJ45 10/100/1000 Mbps PoE ports with LED
- 2 x RJ45 10/100/1000 Intel® Fast Ethernet with LED
- 1 x 9~36VDC input with ignition and 40W typical power consumption
- 2 x USB type A USB 3.0 port
- 2 x phone jacks 3.5mm for 1 x Mic-in and 1 x Line-out
- 1 x DB-15 VGA, resolution up to 2560 x 1600 @60Hz
- 1 x HDMI port, resolution up to 2560 x 1600 @60Hz
- 2 x DB-9 RS-232
- 1 x DB-9 RS-232/422/485 (RI/5V/12V selectable)
- 1 x 12VDC output (2A) + SM Bus + 2 x MDI + power button
- 1 x DB9 connector for optional DR signal input, 2 x MDO and iButton • 1 x 16-Pin terminal block connector1 x CAN Bus 2.0B (on board)
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 - 1 x OBDII from optional VIOB-OBD-03 module (SAE J1939)





- 1 x CAN Bus 2.0B from optional VIOB-CAN-03 module
- 8 x Programmable GPIO
 - (4 x Digital inputs, w/ optional 3KV isolation protection) Input voltage (source type): 5VDC TTL (default) Input voltage (external type): 3~12VDC
 - (4 x Digital outputs, w/ optional 3KV isolation protection) Digital output (source type): 5VDC TTL (default), max current: 20mA Digital output (external type): 3~24VDC, max current: 150mA

Power Management

Selectable boot-up & shut-down voltage for low power protection by software. Setting 8-level power on/ off delay time by software. Support S3/S4 suspend mode

Operating System

Windows 7/WES7/Windows 8/WES8/Windows 10/Linux kernel 3.X

- 260mm (W) x 196mm (D) x 91mm (H) (10.24" x 7.72" x 3.58")
- 4kg

Environment

- Operating temperatures:
 - -30°C~60°C (w/industrial SSD) with air flow
- Storage temperatures: -40°C~80°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random):
 - 1.5g@5~500 Hz (in operation, HDD), 2g@5~500 Hz (in operation, SSD)
- Vibration (SSD/HDD):
 Operating: MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure
 - Storage: MIL-STD-810G, Method 514.6, Category 24, minimum integrity test
- Shock (SSD/HDD):
 - Operating: MIL-STD-810G, Method 516.6, Procedure I, functional
 - Non-operating: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g

Certifications

• CE approval, FCC Class A, E13 mark

Ordering Information

- MVS 5603-7C8SK (P/N: 10VS0560300X0) 6th generation Intel® Core™ dual core i7-6600U, 2.6GHz, 2GB DDR3L industrial grade SO-DIMM, $8 \times 10/100/1000$ PoE, $2 \times 10/100/1000$
- Ethernet, VGA/HDMI output, 2 x RS232, 1 x RS-232/422/485, 4 x USB, 12VDC output, 1 x CAN
- MVS 5603-3C8SK (P/N: 10VS0560301X0)
 - 6th generation Intel® Core™ daul core i3-6100U, 2.3GHz, 2GB DDR3L industrial grade SO-DIMM, 8 x 10/100/1000 PoE, 2 x 10/100/1000 Ethernet, VGA/HDMI output, 2 x RS232, 1 x RS-232/422/485, 4 x USB, 12VDC output, 1 x CAN