

MVS 5603-C8SU

8-CH PoE Mobile NVR





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
- Rechargeable battery to secure data while the system power shutdown
- Dual removable SATA 3.0 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 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 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 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

Метогу

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

Storage

- 2 x 2.5" SATA 3.0 SSD/HDD (removable & hot swappable), RAID 0, 1 supported (optional lockable storage available)
- 1 x CFast (externally accessible)

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
- 1 x externally accessible SIM card socket
- 2 x antenna holes for WWAN/WLAN/BT/GPS

TPM

- Built-in TPM
- Infineon: SLB9665TT2.0

I/O Interface-Rear

- 8 x RJ45 10/100/1000 Mbps PoE ports with LED
- + $2 \times RJ45 10/100/1000 Intel^{\odot}$ Fast Ethernet with LED
- $1 \times 9 \sim 36$ VDC input with ignition and 40W typical power consumption (without POE included)
- 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
- + $1 \times DB-15 \times VGA$, resolution up to $2560 \times 1600 \otimes 60 \text{Hz}$
- 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)

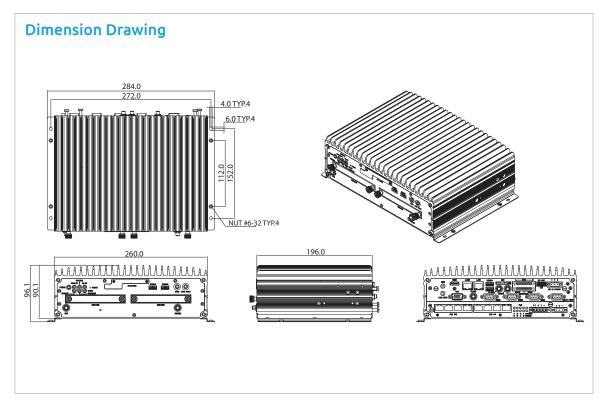
Modular Vehicle Computer System

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- 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 connector
 - 1 x CAN Bus 2.0B (on board)
 - 1 x OBDII from optional VIOB-OBD-03 module (SAE J1939)
 - $1\,\mathrm{x}$ CAN Bus 2.0B from optional VIOB-CAN-03 module
 - 8 x programmable GPIO
 - (4 x digital inputs)

Input voltage (source type): 5VDC TTL (default)
Input voltage (external type): 3~24VDC (4 x digital outputs)
Digital output (source type): 5VDC TTL (default), max current: 20mA
Digital output (external type): 3~24VDC, max current: 150mA

 1 x Externally accessible SIM card socket and 1x internal SIM card socket selectable

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

Rechargeable Battery (option)

- Lithium-ion Polymer
- Nominal capacity 1100mAh
- Maximum charge current 1.0CmA

Operating System

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

Dimensions

- 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):
- 1.2g@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 shock=20g
 - 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 5603-7C8SU (P/N: 10VS0560305X00)

6th generation Intel® Core™ dual core i7-6600U, 2.6GHz, 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 USB3.0, 12VDC output, 1 x CAN

• MVS 5603-3C8SU (P/N: 10VS0560306X0)

6th generation Intel® Core™ daul core i3-6100U, 2.3GHz, 2GB DDR3L industrial grade SO-DIMM, $8\times10/100/1000$ PoE, $2\times10/100/1000$ Ethernet, VGA/HDMI output, $2\times8S232$, $1\times8S-232/422/485$, $4\timesUSB3.0$, 12VDC output, $1\timesCAN$

• Battery Kit (P/N: 88VS0560303X0) Rechargeable battery, Lithium-ion, capacity 1100mAh

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