



The VIANOVA vehicle server is an on-board computer particularly developed for mobile applications. It is the hardware platform for the VIANOVA software products including passenger information, entertainment, video surveillance and passenger counting. The system performance is more than sufficient to run all these applications simultaneously with reserve.

The use of open standards such as PCI and USB enables the functionality of the system to be easily adapted. The housing dimensions can also be readily adapted to suit the vehicle requirements so that new vehicle integration or fleet retrofitting is easily facilitated.

State-of-the-art technology combined with a fanless design ensures the system is practically maintenance free. An extended operational temperature range corresponds to the stringent vehicle requirements and the system is certified according to the specific regulations governing public transportation vehicles, e.g. shock and vibration, power supply, fire protection and the licensing governed by the German Federal Bureau of Motor Vehicles and Drivers.



A number of operational parameters are continually monitored – almost in real time – and built-in diagnostic tools highlight errors as they occur so that service personnel can be notified automatically. This streamlined approach minimizes downtimes and helps to optimize spare-part planning



The performance of the on board-computer is extremely high, providing passenger information and entertainment functions simultaneously. Background server tasks can still be used to record data from a fully digital video surveillance and a passenger counting system.

To facilitate integration with our multimedia infotainment displays, we have included the modern “GigaStar generation 3” interface alongside the conventional Ethernet. The beauty of the GigaStart solution lies in its simplicity allowing an almost unlimited number of displays to be cascaded using just one [twisted pair] cable to transmit two independent HDTV 720p images simultaneously without a loss in quality. The images on the connected displays are shown fully synchronously – a real must have when connecting several display units in one compartment.

Technical Data

Vehicle Server G3 MS-700

Application:

For vehicles with limited space. Independent mounting position.

Mechanical Data:

Height: 39 mm
 Width: 334 mm
 Depth: 154 mm
 Weight: 2 kg

Electrical Data:

Supply Voltage: 24 V DC (+/- 30 %)
 Power Consumption Operational*: 15 W typical*
 Power Consumption Standby: < 5 W
 Fuse: 3 A T

Temperature Range:

operational: 0° to +55 °C
 Standby: -25° to +75 °C
 Non-Operating: -25° to +85 °C

Interface:

Ethernet: 2x M12 Ethernet with IBISplus functionality and switch
 USB: 2x USB 2.0
 Serial: 1x IBIS2
 Digital I/O: 3x Digital IN, 4x Digital OUT
 Mass Storage: Internal 4 GB On Board Flash
 Communication: Refer to E2 Extension
 Video Output/Diagnostic Downlink: 1x GigaStar Generation 3 Video Output with 2 independent HDTV (720p) Channels with Diagnostic Downlink Channel
 Service: 1x Display Port for Service and Maintenance

Certification:

EN50155, EN50121-2-4, EN60950, E1, CE

EXTENSION MS-700-E2-x:

Communication Module with DMB/DAB (-D), GSM/UMTS (-G), GPS (-S), Bluetooth 3.0 (-B) or WLAN (-W) TNC-R interface. Power consumption: max. 5 W

EXTENSION MS-700-E5-x:

Adapter frame (-2U), (-3U) or floor mounting (-BOT) for installation in 19" racks

EXTENSION MS-700-E7:

Additional and independent >8 GB SATA Flash memory unit

*) under typical operational conditions

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