



999.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Ruggedized !
- Wide voltage range !
- Wide temperatur range !
- Rich I/O !

The VIA AMOS-3005 is a low power, ultra-compact fanless embedded solution with a ruggedized chassis supporting wide operating temperatures (-20°C to 60°C) and an input voltage range of 9V-36V that provides customers with a versatile and highly-reliable system for the most demanding embedded computing environments.

## Hardware

Harnessing the high performance and low-power consumption of a 1.2GHz VIA Eden® X4 quad-core processor and VIA VX11H MSP including the VIA C-640 graphics processor with DX11 support for richer textures and 2D/3D displays, the VIA AMOS-3005 cleverly incorporates a rugged design with rich network connectivity in the form of dual Gigabit Ethernet (GLAN), and optional Wi-Fi, GPS, and 3G networking. The system integrates a wide array of I/O connectivity features, including one HDMI port, one VGA port, two USB 3.0 ports, two lockable USB 2.0 ports, 2 Gigabit Ethernet ports, 2 COM ports, and one 9-pin D-Sub connector for 8-bit GPIO. Onboard I/O includes one mSATA connector, one SIM slot, and one miniPCIe slot. The system also supports up to 8GB DDR3 1333 SDRAM.

## Software

The VIA AMOS-3005 is fully compatible with Microsoft® Windows® 10 IoT, Windows® 10, 8.1, 8, 7, Windows® Embedded Standard 7, and popular Linux distributions. Customers can take advantage of VIA's industry leading hardware and software support, including the VIA Smart ETK (Embedded Tool Kit), which provides an application programming interface (API) that makes it easy for system developers to control and monitor GPIO, Watchdog Timer, Hardware Management, Flash and other functions. Wake On LAN (WOL) and pre-boot execution environment (PXE) are also supported, allowing the creation of a host of remotely managed IoT devices for the most demanding of environments.

## Applications

With its ruggedized design, rich networking connectivity options, and a host of extendable I/O options, the VIA AMOS-3005 is the ideal solution for a wide range of embedded IoT, and machine-to-machine applications.

| Model Name              | AMOS-3005                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Processor               | 1.2GHz VIA Eden® X4                                                                                                        |
| Chipset                 | VIA VX11 Media System Processor                                                                                            |
| BIOS                    | AMI BIOS, 32Mbit Flash memory                                                                                              |
| System Power Management | Wake-on LAN, keyboard power-on, timer power-on, system power management, AC power failure recovery, Watchdog timer control |
| System Memory           | 1 DDR3 1333 SDRAM SODIMM socket<br>Up to 8GB memory size                                                                   |
| Storage                 | Supports 1 mSATA slot                                                                                                      |

|                                    |                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Graphics                           | Integrated C-640 DX11 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding accelerator                                                                               |
| Audio                              | VIA VT2021 High Definition Audio Codec                                                                                                                                         |
| Display I/O                        | 1 HDMI port<br>1 VGA port supporting VGA resolutions up to 2048 x 1536 pixels<br>Dual independent VGA + HDMI display at different resolutions, pixel depths, and refresh rates |
| USB                                | 2 USB 3.0 ports,<br>2 USB 2.0 ports (lockable USB ports for secure connections)                                                                                                |
| LAN                                | 2 Realtek RTL8111G PCIe Gigabit Ethernet controllers                                                                                                                           |
| COM                                | Fintek F71869ED                                                                                                                                                                |
| Expansion I/O                      | 1 miniPCIe slot<br>1 SIM slot<br>2 Lockable USB 2.0 ports<br>2 COM ports for RS-232/422/485                                                                                    |
| Front Panel I/O                    | 1 Power on/off button<br>1 Red LED for HDD activity<br>1 Green LED for power status<br>2 USB 3.0 ports<br>1 HDMI port<br>1 VGA port                                            |
| Back Panel I/O                     | 2 Gigabit Ethernet ports<br>1 DIO port for 8-bit GPIO<br>2 Audio jacks: Line-out and Mic-in<br>1 2-pole Phoenix DC jack                                                        |
| Power Supply                       | 9 ~ 36V DC-in (typical: 19W)                                                                                                                                                   |
| Operating System                   | Windows® 10/8.1/8/7, Win 10 IoT, WES 7, Linux                                                                                                                                  |
| Watchdog Timer                     | System reset; programmable 1-255 sec                                                                                                                                           |
| Mechanical Construction            | Aluminum top chassis housing<br>Metal chassis housing<br>Dual removable front & rear metal face plate                                                                          |
| Mounting                           | Wall/DIN Rail/VESA mountable                                                                                                                                                   |
| Dimensions                         | 150.5mm(W) x 48.1mm(H) x 109.8mm(D) (5.93" x 1.89" x 4.32")                                                                                                                    |
| Weight                             | 1.4kg (3.08lbs)                                                                                                                                                                |
| Operating Temperature              | -20°C ~ 60°C with qualified industrial grade mSATA                                                                                                                             |
| Storage Temperature                | -20°C ~ 70°C                                                                                                                                                                   |
| Operating Humidity                 | 0% ~ 95% (relative humidity; non-condensing)                                                                                                                                   |
| Vibration Loading During Operation | With mSATA Flash Drive: 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis                                                                                                     |
| Shock During Operation             | With mSATA Flash Drive: 50G, IEC 60068-2-27, half sine, 11ms duration                                                                                                          |
| Compliance                         | CCC/CE/FCC                                                                                                                                                                     |