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 Gigiabit 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 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 1 VGA port supporting VGA resolutions up to 2048 x 1536 pixels Dual independent VGA + HDMI display at different resolutions, pixel depths, and refresh rates
USB	2 USB 3.0 ports, 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 1 SIM slot
Front Panel I/O	2 Lockable USB 2.0 ports 2 COM ports for RS-232/422/485 1 Power on/off button 1 Red LED for HDD activity 1 Green LED for power status
Back Panel I/O	2 USB 3.0 ports 1 HDMI port 1 VGA port 2 Gigabit Ethernet ports 1 DIO port for 8-bit GPIO 2 Audio jacks: Line-out and Mic-in 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 Metal chassis housing 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