

VIA
AMOS-3007

Ultra-compact fanless system
for embedded industrial
applications ideally suited for
demanding environments

Features

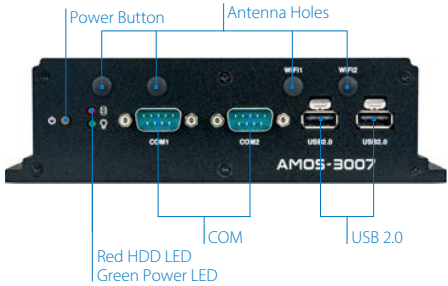
- Ultra compact, ruggedized form factor with Wall/VESA mounting options
- High-performance fanless 1.5GHz Intel® Atom® Quad Core processor with TPM support
- Support for 4G/5G SIM cards and Wi-Fi
- Rich I/O feature set including 2 Ethernet, lockable USB, RS-232/422/485, and GPIO
- Dual HDMI display support



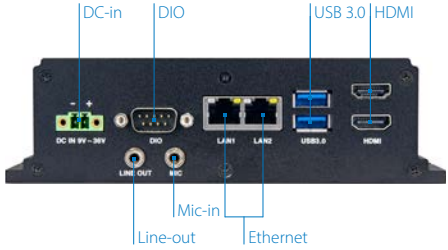
Specifications

Model Name	AMOS-3007
Processor	1.5GHz Intel® Atom® Quad Core Processor with TPM support
BIOS	AMI BIOS, 256Mbit Flash Memory
System Memory	1 DDR4 SODIMM Socket Up to 32GB memory size
Storage	1 M.2 slot for storage (SATA) 1 SATA w/ power connector for 2.5" SSD
Graphics	Integrated Intel Graphic Gen 11-Low Power Supports OpenCL*1.2, OpenGL 4.5, OpenGL-ES 3.2, Vulkan v1.1, DirectX
Audio	Realtek ALC888S-VD2-GR High Definition Audio Codec
Display I/O	2 HDMI ports Supports dual display
USB	2 USB 3.0 ports, 2 Lockable USB 2.0 ports
LAN	2 Realtek RTL8111H-CG Gigabit Ethernet controllers
COM	Integrated in Fintek F81216ED
Expansion I/O	1 M.2 slot for Wi-Fi, 1 M.2 slot for LTE, 1 x SIM card slot
Front Panel I/O	2 Lockable USB 2.0 ports 2 COM ports for RS-232/422/485 1 Red LED for HDD activity 1 Green LED for power status 1 Power Button 4 Antenna holes for LTE & Wi-Fi
Back Panel I/O	2 HDMI ports 2 USB 3.0 ports 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: xxxW)
Operating System	Windows 10/11, Linux
Power Management	Wake-on LAN, keyboard wake-up, RTC power-on, system power management, AC power failure recovery, Watch Dog timer (System reset; programmable 1-255 sec)
Operating Temperature	-20°C ~ 70°C (with qualified industrial grade M.2 SSD)
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)
Storage Temperature	-20°C ~ 70°C
Vibration Loading During Operation	With M.2 Flash Drive: 3Grms, IEC 60068-2-64, random, 5 ~500Hz, 1hr/axis

Front Panel External I/O



Back Panel External I/O



Specifications

Model Name	AMOS-3007
Shock During Operation	With M.2 Flash Drive: 50G, IEC 60068-2-27, half size, 11msduration
Mechanical Construction	Aluminum top chassis housing Metal chassis housing Dual removable front & rear metal face plate 2.5" SSD bay for expansion
Mounting	Wall/VESA mountable
Dimensions	170mm(W) x 48.5mm(H) x 126mm(D) (6.69" x 1.90" x 4.96")
Weight	1kg (2.2lbs)
Compliance	CE, FCC, UKCA (w/o LTE & Wi-Fi), pre-scan for E-Mark

Ordering Information

Part Number	CPU Frequency	Description
AMOS-3007-1Q15A0	Intel® Atom® Quad Core CPU @ 1.5GHz	1.5GHz Intel® Atom® Quad Core CPU with TPM support, fanless cooling system with 2 HDMI, 2 USB 3.0, 2 Lockable USB 2.0, 2 COM, DIO, 2 Gigabit Ethernet, 3 M.2 slots, SIM card slot, 9~36V DC-in power

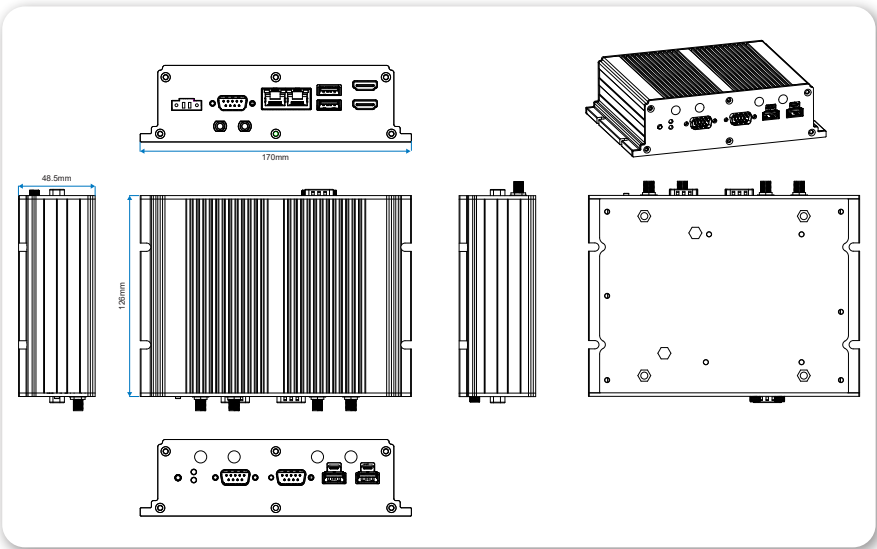
Optional Accessories

Power Accessories	
Part Number	Description
99G63-020776	AC-to-DC adapter, DC 12V/5A, 60W
99G33-02032C	Power cord, 180cm, USA type
99G33-02033C	Power cord, 180cm, Europe type
99G33-02034C	Power cord with PSE mark, 180cm for Japan market

Wireless Accessories	
Part Number	Description
EMIO-8530-00A0	Wi-Fi & Bluetooth M.2 module with two antennas and assembly kit
EMIO-8570-00A0	4G LTE mobile broadband M.2 module with antenna and assembly kit (Worldwide)
EMIO-8570-01A0	4G LTE mobile broadband & GPS M.2 module with two antennas and assembly kit (Worldwide)

SATA SSD/HDD Accessories	
Part Number	Description
AMOS-3007-SS00A0	SATA SSD cable + screw pack

Dimensions



Packing List

Items
AMOS-3007 system
2-pole Phoenix plug to DC jack
Screw pack for mounting
Screw pack for M.2 modules
Rubber feet pack
Thermal pad pack for M.2 modules and DDR4 SODIMM

Mouser Electronics

Authorized Distributor

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