VIA

AMOS-3007

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



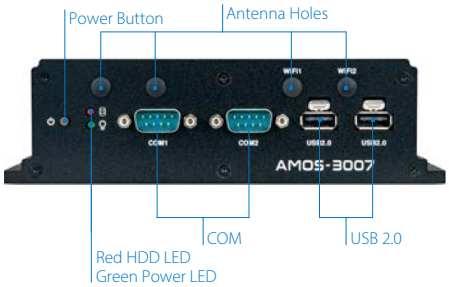
Features

- 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

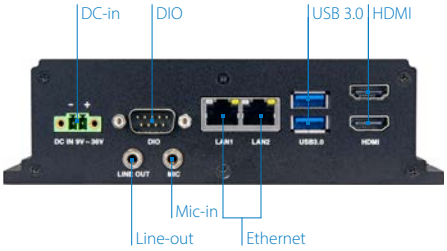
Specifications

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, 11ms duration
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

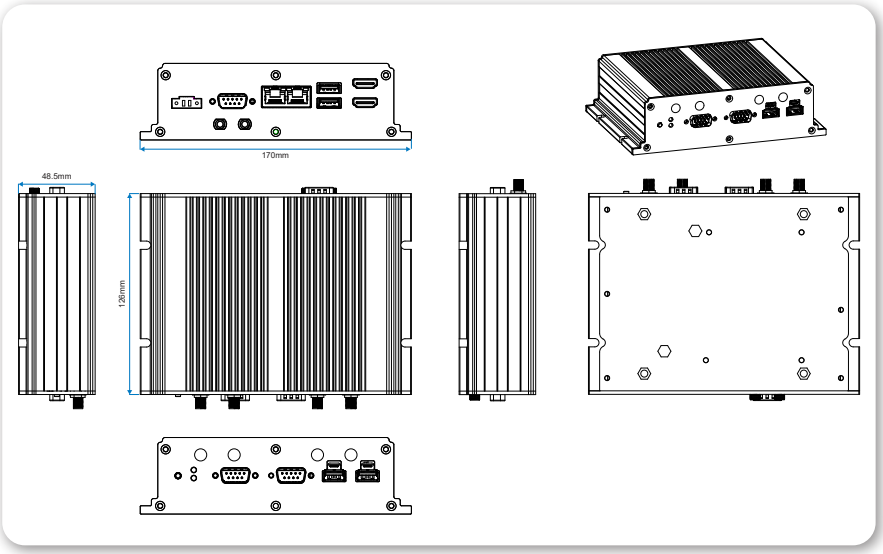
Optional Accessories

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 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