

VIA

# AMOS-800

Fanless ultra-compact ARM-based system for industrial environments



## Features

- 800MHz NXP™ i.MX537 Cortex-A8 SoC
- Wide operating temperature range, -40°C ~ 80°C
- Legacy I/O support
- Supports 8-bit GPIO and CAN bus
- Android, Linux, and WEC7 solution packs available

## Specifications

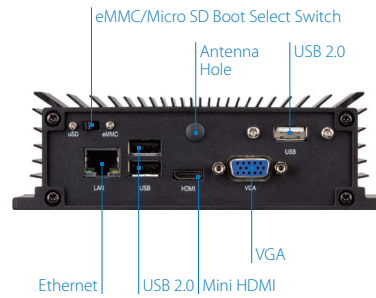
<b>Model Name</b>	<b>AMOS-800</b>
<b>Processor</b>	800MHz NXP i.MX537 Cortex-A8 SoC
<b>System Memory</b>	1GB DDR3 SDRAM onboard
<b>Storage</b>	4GB eMMC Flash memory
<b>Graphics</b>	AMD Z430 GPU 2 integrated, independent 3D/2D graphics processing units Graphics engine supporting OpenGL® ES 2.0 and OpenVG™ 1.1 hardware acceleration Supports MPEG-2, VC-1 and H.264 video decoding up to 1080p
<b>LAN</b>	SMSC LAN8720A 10/100 PHY transceiver with HP Auto-MDIX support
<b>Audio</b>	NXP SGLT5000 low power stereo codec
<b>HDMI</b>	Silicon image SiI9024A HDMI transmitter
<b>USB</b>	SMSC USB2514 USB 2.0 high speed 4-port hub controllers
<b>CAN</b>	TI SN65HVD1050 EMC optimized CAN transceiver
<b>Front Panel I/O</b>	1 COM port (TX/RX) 1 COM (TX/RX) / CAN bus port (supports CAN Protocol specification Version 2.0 B) 1 DIO port supports 8-bit GPIO (4 GPI + 4 GPO) 3 Audio jacks: Line-in, Line-out, Mic-in 1 2-pole Phoenix DC jack 1 Power on/off button 1 Power LED
<b>Back Panel I/O</b>	3 USB 2.0 ports 1 Mini HDMI port 1 VGA port 1 10/100Mbps Ethernet port 1 Micro SD/eMMC boot switch 1 Antenna hole for Wi-Fi
<b>Power Supply</b>	5V DC-in (typical: 3.1W)
<b>Operating System</b>	Android 2.3, Linux Kernel 2.6.35, WES7
<b>Watchdog Timer</b>	Integrated watch dog timer supports two comparison points. Each comparison point can interrupt ARM core, 2nd comparison point capable of generating external interrupts on WDOG line
<b>Operating Temperature</b>	Extended temperature -40°C ~ 80°C (VGA display)
<b>Operating Humidity</b>	0% ~ 90% @ 45° C (non-condensing)
<b>Vibration Loading during Operation</b>	With onboard eMMC 5Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1hr/axis
<b>Shock During Operation</b>	With onboard eMMC 50G, IEC 60068-2-27, half size, 11 ms duration
<b>Bottom Opening Covers</b>	Open window with removable plate to access Micro SD slot
<b>Dimensions</b>	150mm(W) x 45mm(H) x 108mm(D) (5.9" x 1.8" x 4.25")
<b>Weight</b>	0.778kg (1.71lbs)
<b>Compliance</b>	CE, FCC



## Front Panel External I/O



## Back Panel External I/O



## Ordering Information

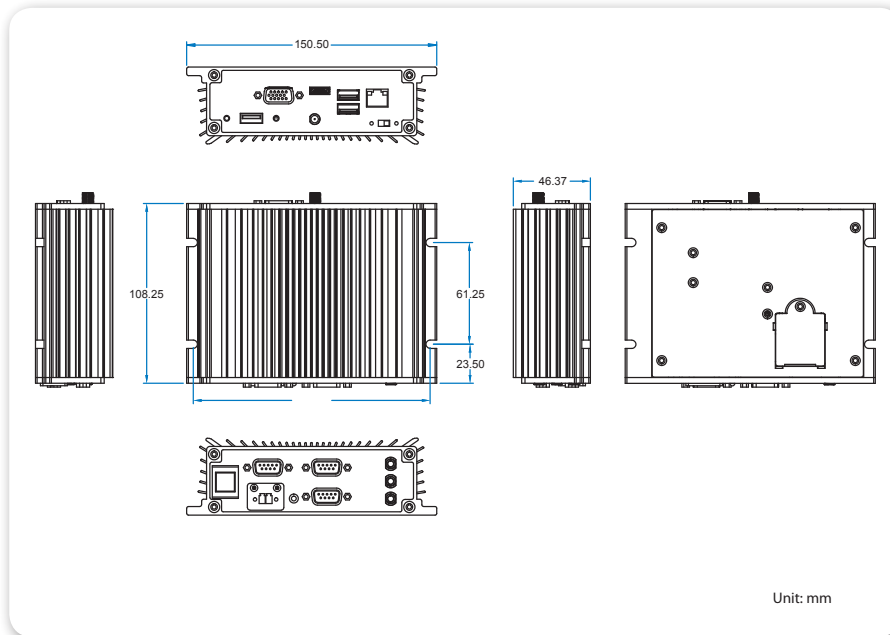
Part Number	SoC Frequency	Description
AMOS-800-1S08A1	NXP i.MX537 Cortex-A8 SoC @ 800MHz	Fanless embedded system with 800MHz NXP™ i.MX537 Cortex-A8 SoC, 1GB DDR3 SDRAM, 4GB eMMC, Mini HDMI, VGA, 3 USB 2.0, 10/100Mbps Ethernet, Micro SD card slot, COM, COM/CAN bus, DIO, 5V DC-in

## Optional Accessories

### Wireless Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271BU0DB IEEE 802.11b/g/n USB Wi-Fi dongle
EMIO-1533-00A2	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi module with assembly kit

## Dimensions



## Packing List

Items
AMOS-800 system
AC-to-DC adapter
Phoenix plug to DC jack
Console cable
Screw pack for mounting
Rubber feet pack