

## Mini-ITX Series

VIA

# EPIA-M900

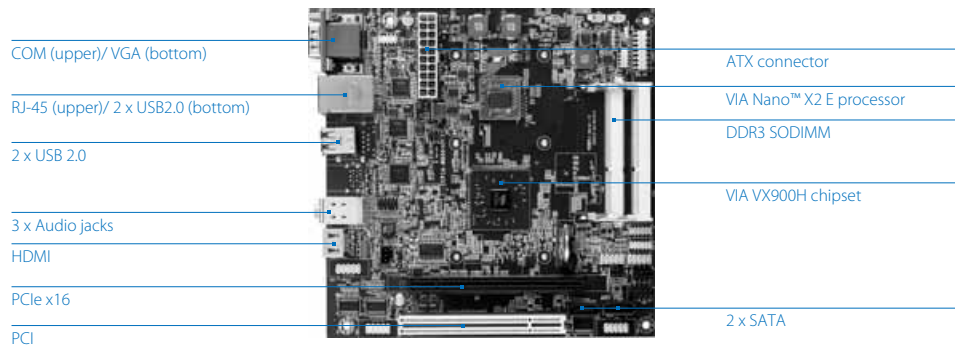
Mini-ITX QuadCore E/Nano™ X2 E Board with Full HD Video Support, SATA, GigaLAN, COM, USB, VGA, HDMI, LVDS & PCIe

## Features

- VIA QuadCore E/Nano™ X2 E processors
- Integrated VIA Chrome9™ HD DX9 3D/2D graphics with VC1, MPEG-2, WMV9 and H.264 decoding acceleration
- Supports high-bandwidth DDR3 memory, up to 8GB
- Supports two SATA
- Supports one Gigabit Ethernet (optional for one more Gigabit Ethernet)
- Supports eight USB 2.0 ports (four as pin headers)
- Supports four COM ports (three as pin headers)
- Supports one PCI and one PCIe x16 slot
- Supports one VGA, one HDMI and one dual-channel 24-bit LVDS panel



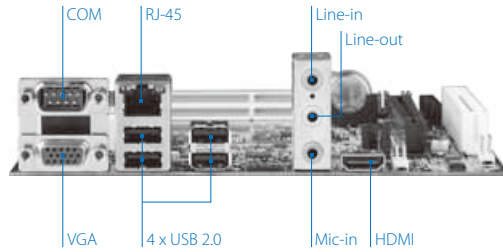
## Board Placement



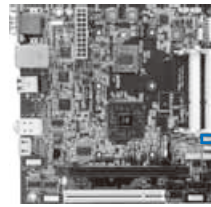
## Specifications

Model Name	EPIA-M900-16L	EPIA-M900-12LQ
<b>Processor</b>	1.6GHz VIA Nano™ X2 E (with fansink)	1.2GHz VIA QuadCore E (with fansink)
<b>Chipset</b>	VIA VX900H Media System Processor	
<b>System Memory</b>	2 x DDR3 1066 SDRAM SODIMM sockets Up to 8GB memory size	
<b>VGA</b>	Integrated VIA Chrome9™ HD DX9 3D/2D graphics with VC1, MPEG-2, WMV9 and H.264 decoding acceleration	
<b>Onboard Serial ATA</b>	2 x SATA connectors	
<b>Onboard LAN</b>	1 x VIA VT6130 PCIe Gigabit Ethernet controller (manufacturing optional)	
<b>Onboard Audio</b>	VIA VT2021	
<b>Onboard Super IO</b>	Fintek F81865-I	
<b>Onboard I/O Connectors</b>	2 x USB pin headers for 4 USB 2.0 ports 1 x USB client 1 x F_audio pin header for Line-out/Mic-in 1 x PS/2 keyboard/mouse pin header 2 x Digital I/O (GPI x 8 + GPO x 8) 1 x Front panel pin header 2 x Smart fan connectors for CPU/Sys 3 x Serial port pin headers for COM ports (from F81865-I) 1 x S/PDIF 1 x SMBUS 1 x PCI (on edge) 1 x PCIe x16 slot (with effective speed up to PCIe x8) 1 x 24-bit 2CH LVDS 1 x Backlight control for inverter power and brightness control 1 x LPC pin header (for programming) 1 x MFX pin header	
<b>Back Panel I/O</b>	1 x HDMI port 1 x VGA port 1 x Serial port 2 x GigaLAN ports & 4 x USB 2.0 ports (default 1 GigaLAN port & 4 x USB2.0 ports) 3 x Audio phone jacks: Line-out, Line-in and Mic-in (Vertical)	
<b>BIOS</b>	AMI BIOS 8Mbit SPI flash memory	
<b>Operating System</b>	Windows 7, Windows Embedded Standard 7, Windows XP, Windows Embedded Standard/Compact, Linux	
<b>Power</b>	ATX connector	
<b>System Monitoring &amp; Management</b>	Wake-on LAN, Keyboard Power-on, Timer Power-on System power management, AC power failure recovery Watch Dog Timer	
<b>Operating Temperature</b>	0°C up to 60°C	
<b>Operating Humidity</b>	0% ~ 95% (relative humidity; non-condensing)	
<b>Form Factor</b>	Mini-ITX 17 cm x 17 cm	
<b>Compliance</b>	CE/FCC/BSMI/RoHS	

## Back Panel I/O



## Accessories

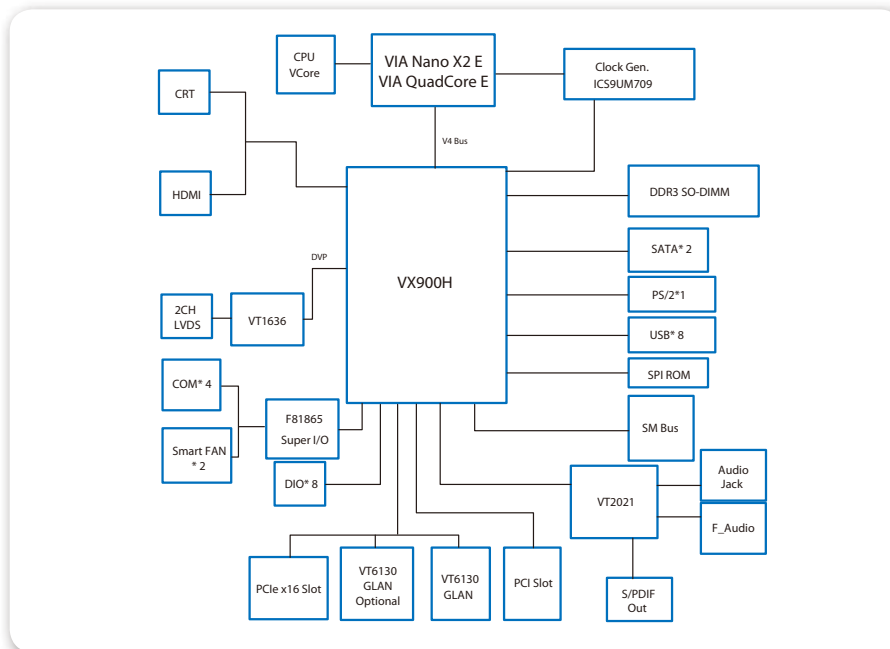


**WLAN USB Module**  
802.11b/g/n standards

## Ordering Information

Model Name	CPU Frequency	Description
EPIA-M900-16L	1.6GHz Nano™ X2 E	Mini-ITX Board with Nano™ X2 E CPU, 2 SATA, 1 GigaLAN, 1 PCI, 8 USB 2.0, 4 COM, 1 VGA, 1 HDMI, 1 LVDS
EPIA-M900-12LQ	1.2GHz QuadCore E	Mini-ITX Board with QuadCore E CPU, 2 SATA, 1 GigaLAN, 1 PCI, 8 USB 2.0, 4 COM, 1 VGA, 1 HDMI, 1 LVDS

## Block Diagram



## Packing List

### Items

- 1 x SATA cable
- 1 x I/O bracket