

Pico-ITX Series

VIA EPIA-P900

Ultra-compact low-power platform with advanced multimedia capabilities

Features

- Compact 10cm x 7.2cm Pico-ITX form factor
- 1.0GHz VIA Eden® X2 Processor
- DX9 graphics with MPEG-2/WMV9/VC1/H.264 decoding acceleration
- Multiple expansion options
- Supports one HDMI and one VGA port

Board Placement

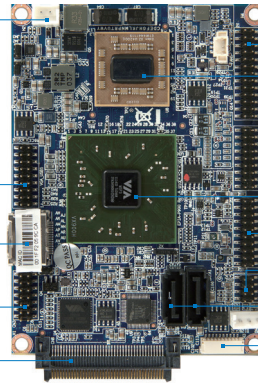
12V DC-in

VGA/USB

HDMI

Gigabit Ethernet

High Speed Extension
(2 PCIe x1 + 1 USB 2.0)



LPC/SMBus/GPIO

VIA Eden® X2 CPU

VIA VX900H Chipset

USB 2.0 Pin Header for 5 Ports

Front Audio

SATA

UART

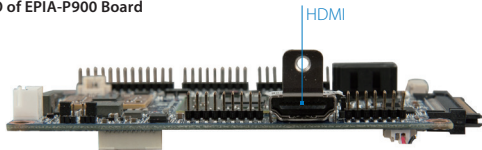
Specifications

Model Name	EPIA-P900-10
Processor	1.0GHz VIA Eden® X2
Chipset	VIA VX900H Media System Processor
BIOS	AMI BIOS, 8Mbit Flash memory
System Memory	1 DDR3 800/1066 SODIMM socket Up to 4GB memory size
Storage	2 SATA connectors
Graphics	Integrated VIA Chrome®9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
LAN	1 VIA VT6130 PCIe Gigabit Ethernet controller
Audio	VIA VT2021 High Definition Audio Codec
Super I/O	Fintek F81801U-I
Expansion I/O	2 PCIe x1 + 1 USB 2.0 (through high speed extension)
Onboard I/O	2 SATA connectors 1 SATA power connector 1 USB pin header for 5 ports 1 Single-channel 24-bit LVDS panel connector 1 LPC pin header 1 SMBus pin header 1 Digital I/O pin header (4 GPI + 4 GPO) 1 Audio pin header for Line-out, Mic-in 1 Ethernet pin header 1 Smart Fan pin header for system 2 UART port pin-headers 1 Backlight control for panel 1 DC-in connector 2 PCIe x1 + 1 USB 2.0 port (through high speed extension)
Back Panel I/O	2 USB 2.0 ports 1 HDMI port 1 VGA port 1 Gigabit Ethernet port
Power Supply	12V DC-in
Operating System	Windows 7, WES 7, Windows CE, Linux
System Monitoring & Management	Wake-on LAN, Keyboard Power-on, Timer Power-on, System power management, AC power failure recovery, Watch Dog Timer
Operating Temperature	0°C ~ 60°C
Operating Humidity	0% ~ 95% (non-condensing)
Form Factor	Pico-ITX (10cm x 7.2cm, 3.9" x 2.8")
Compliance	CE/FCC

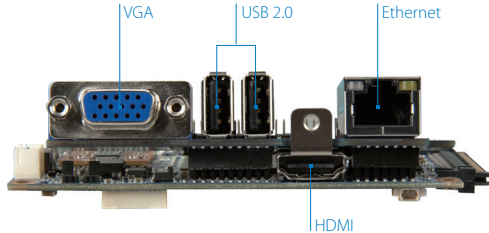


Back Panel I/O

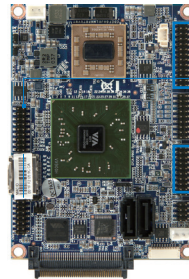
I/O of EPIA-P900 Board



I/O of EPIA-P900 Board with P830-A



Accessories



LPC-01/02/04

Up to 4 additional COM ports



P830-A (Pre-assembled)

VGA/Gigabit Ethernet/2 USB 2.0



EMIO-1533 USB Wi-Fi Module

802.11b/g/n standards

Ordering Information

Model Name	CPU Frequency	Description
EPIA-P900-10	VIA Eden® X2 @ 1.0GHz	Pico-ITX board with 1.0GHz VIA Eden® X2 CPU, HDMI, VGA, LVDS, 8 USB 2.0, Gigabit Ethernet, 2 SATA, 12V DC-in, Pre-assembled P830-A I/O card

Optional Accessories

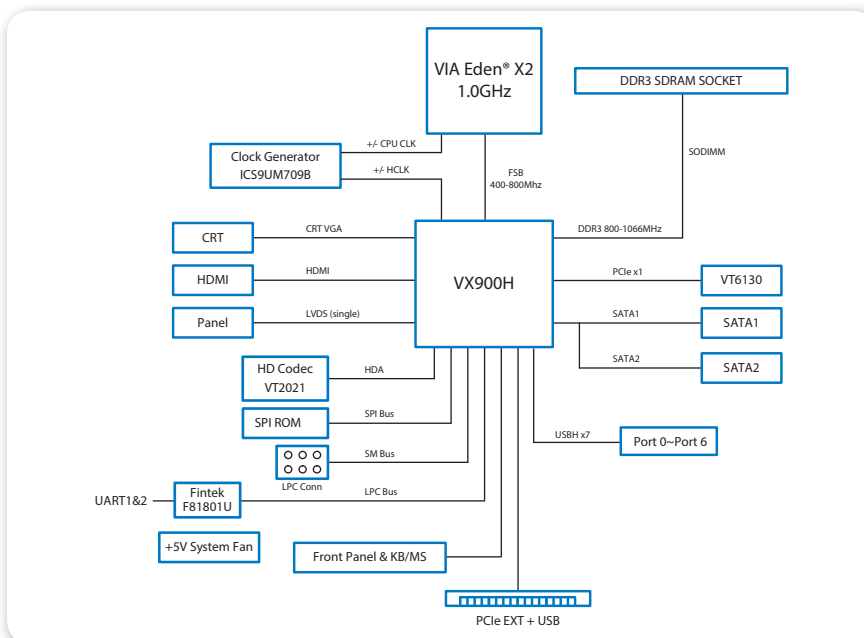
I/O Expansion Cards

Part Number	Description
LPC-01	Expansion module for four COM ports
LPC-02	Expansion module for four COM ports (5V or 12V)
LPC-04	Expansion module for two or four COM ports (5V or 12V)

Wireless Modules

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

Block Diagram



Packing List

Items
EPIA-P900 board
P830-A I/O card (pre-assembled)
DC power cable
SATA cable
SATA power cable

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[EPIA-P900-10](#)