

## 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

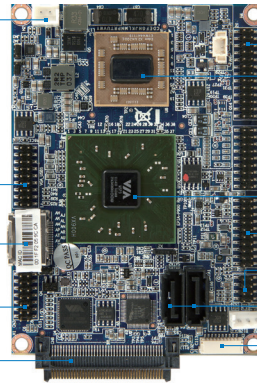
12V DC-in

VGA/USB

HDMI

Gigabit Ethernet

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



LPC/SMBus/GPIO

VIA Eden® X2 CPU

VIA VX900 Chipset

USB 2.0 Pin Header for 5 Ports

Front Audio

SATA

UART

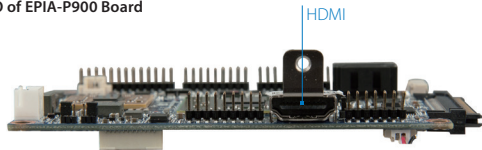
## Specifications

<b>Model Name</b>	<b>EPIA-P900-10</b>
<b>Processor</b>	1.0GHz VIA Eden® X2
<b>Chipset</b>	VIA VX900 Media System Processor
<b>BIOS</b>	AMI BIOS, 8Mbit Flash memory
<b>System Memory</b>	1 DDR3 800/1066 SODIMM socket Up to 4GB memory size
<b>Storage</b>	2 SATA connectors
<b>Graphics</b>	Integrated VIA C-9 HD DX9 3D/2D graphics with MPEG-2, WMV9, VC1 and H.264 video decoding acceleration
<b>LAN</b>	1 VIA VT6130 PCIe Gigabit Ethernet controller
<b>Audio</b>	VIA VT2021 High Definition Audio Codec
<b>Super I/O</b>	Fintek F81801U-I
<b>Expansion I/O</b>	2 PCIe x1 + 1 USB 2.0 (through high speed extension)
<b>Onboard I/O</b>	2 SATA connectors 1 SATA power connector 1 Single-channel 24-bit LVDS panel connector 1 USB pin header for 5 ports 2 UART port pin-headers 1 Digital I/O pin header (4 GPI + 4 GPO) 1 Ethernet pin header 1 LPC pin header 1 SMBus pin header 1 Audio pin header for Line-out, Mic-in 1 Smart Fan pin header for system 1 Backlight control for panel 1 DC-in connector 2 PCIe x1 + 1 USB 2.0 port (through high speed extension)
<b>Back Panel I/O</b>	1 HDMI port 1 VGA port 2 USB 2.0 ports 1 Gigabit Ethernet port
<b>Power Supply</b>	12V DC-in
<b>Operating System</b>	Windows 7, WES 7, Windows CE, Linux
<b>VIA Smart ETK</b>	BIOS flash tool, Hardware monitor, LCD backlight brightness control, Watchdog timer, GPIO, SMBus
<b>Operating Temperature</b>	0°C ~ 60°C
<b>Operating Humidity</b>	0% ~ 95% (non-condensing)
<b>Form Factor</b>	Pico-ITX (10cm x 7.2cm, 3.9" x 2.8")
<b>Compliance</b>	CE, FCC

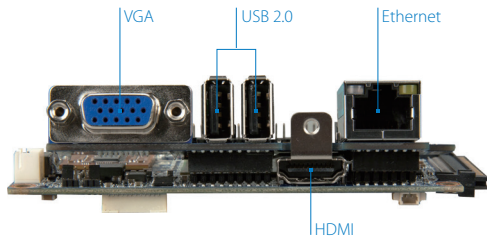


## Back Panel I/O

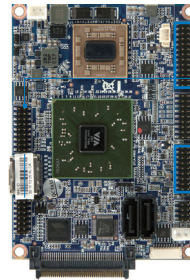
I/O of EPIA-P900 Board



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



**EMIO-5531 USB Wi-Fi + BT Module**  
802.11b/g/n standards  
Bluetooth 2.1 + EDR specification

## Ordering Information

Model Name	CPU Frequency	Description
EPIA-P900-10-1	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

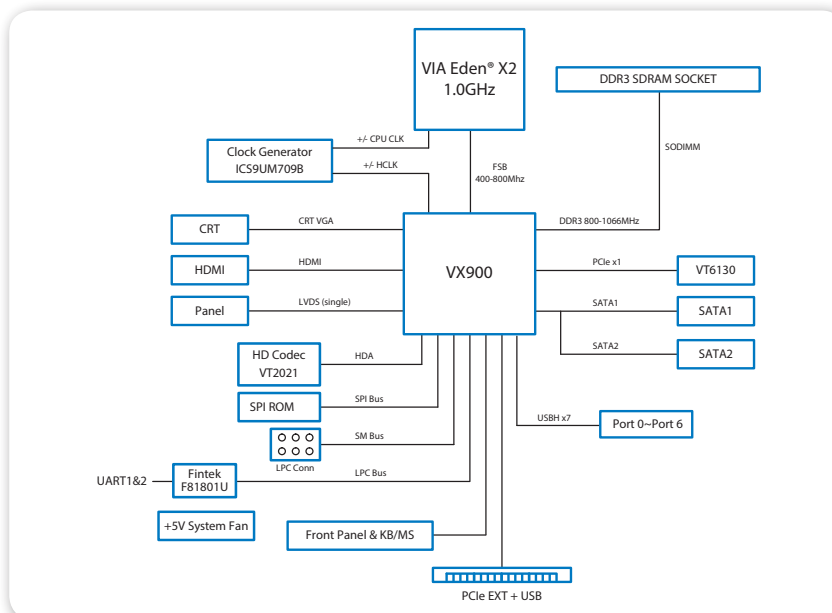
### I/O Expansion Cards

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 Accessories

Part Number	Description
00GO27100BU2B0D0	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi dongle
EMIO-1533-00A2	VNT9271 IEEE 802.11 b/g/n USB Wi-Fi module with assembly kit and antenna
EMIO-5531-00A1	VAB-820-W IEEE 802.11 b/g/n USB Wi-Fi & Bluetooth module with assembly kit and antenna

## Block Diagram



## Packing List

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