

## Pico-ITX Series

NEW

VIA

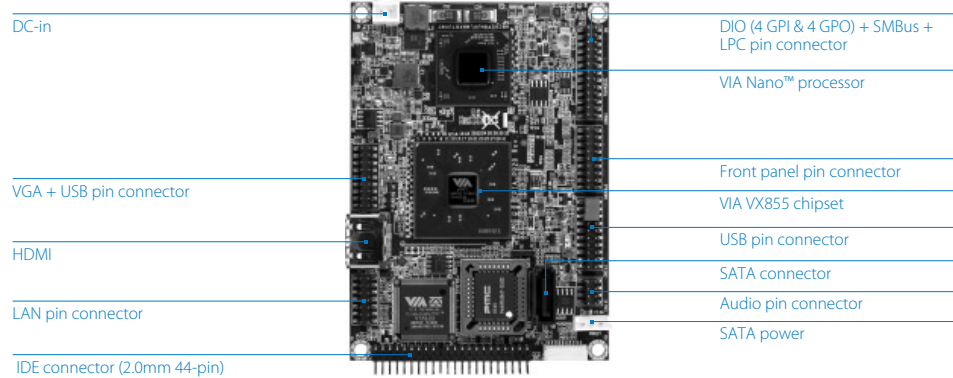
# EPIA-P820

Pico-ITX Nano™ Board with  
MPEG-2, WMV9, H.264,  
LVDS, HDMI, USB, SATA &  
GigaLAN Support

## Features

- Integrated VIA Chrome9™ 3D/2D AGP graphics with MPEG-2, WMV9 & H.264 video decoding acceleration
- Supports DDR2 800/667 SDRAM (SODIMM)
- Supports one Gigabit Ethernet
- Supports one IDE and one SATA hard drive
- Supports six USB 2.0 ports
- Onboard LVDS support: One single-channel LVDS panel support
- Supports HD audio
- Supports one HDMI port

## Board Placement



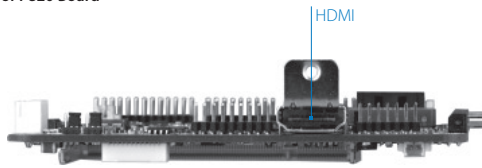
## Specifications

<b>Model Name</b>	<b>EPIA-P820-12L</b>
<b>Processor</b>	1.2 GHz VIA Nano™
<b>Chipset</b>	VIA VX855 Unified Digital Media IGP chipset
<b>System Memory</b>	1 x DDR2 800/667 SODIMM socket Up to 2GB memory size
<b>VGA</b>	Integrated VIA Chrome9™ 3D/2D AGP graphics with MPEG-2, WMV9 & H.264 video decoding acceleration
<b>Onboard IDE</b>	1 x IDE 2.0mm 44-pin pin header
<b>Onboard Serial ATA</b>	1 x SATA connector
<b>Onboard LAN</b>	1 x VIA VT6122 Gigabit Ethernet controller
<b>Onboard Audio</b>	1 x VIA VT1708S High Definition Audio Codec
<b>Onboard I/O Connectors</b>	1 x USB pin connector for 4 additional USB 2.0 ports 1 x LPC pin connector 1 x SMBus pin connector 1 x Front panel pin connector 1 x PS2 mouse/keyboard pin connector 1 x Fan pin connector: Sys FAN 1 x Single-channel LVDS pin connector (with backlight control) 1 x Audio pin connector for Line-in, Line-out, & Mic-in 1 x DIO pin connector (4GPI+4GPO) 2 x UART port pin-header/VCP 1 x SATA power connector 1 x DC-in power connector
<b>Back Panel I/O</b>	1 x HDMI port 1 x VGA port 1 x GigaLAN jack 2 x USB 2.0 ports
<b>BIOS</b>	AMI BIOS 4Mbit LPC flash memory
<b>Operating System</b>	Windows 2000/XP, Linux, Win CE, XPe
<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 ~ 60°C
<b>Operating Humidity</b>	0% ~ 95% (relative humidity; non-condensing)
<b>Form Factor</b>	Pico-ITX 10 cm x 7.2 cm
<b>Compliance</b>	CE/FCC/BSMI/RoHS

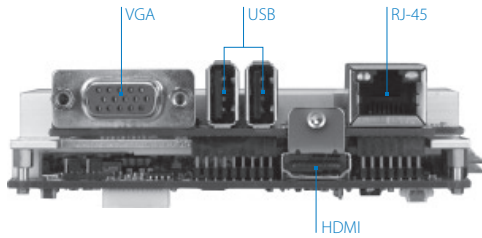


## Back Panel I/O

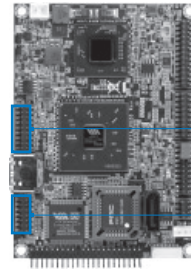
IO of P820 Board



IO of P820 Board with P720-A



## Accessories

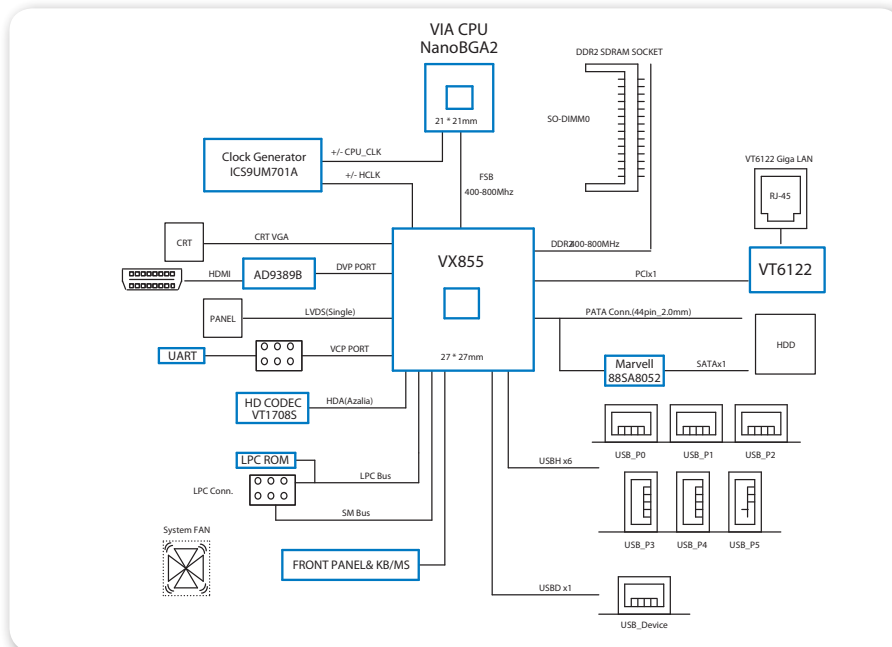


**P720-A**  
VGA/GigaLAN/2 USB 2.0

## Ordering Information

Model Name	CPU Frequency	Description
P820-12L	1.2 GHz Nano™	PiCo-ITX Board with 1.2 GHz Nano™ CPU, MPEG-2, WMV9, H.264, 1 x LVDS, 1 x HDMI, 6 x USB, 1 x IDE, 1 x SATA, 1 x GigaLAN, on-board DC-in

## Block Diagram



## Packing List

### Items

- 1 x P720-A I/O card (Pre-assembled)
- 1 x DC power cable
- 1 x SATA cable
- 1 x SATA power cable
- 1 x Driver Utility CD