Pico-ITX Series

VIA

EPIA-P820

Pico-ITX Nano™ E 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

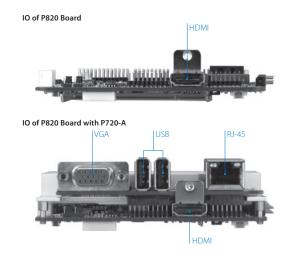
board Flacement	A	
DC-in		DIO (4 GPI & 4 GPO) + SMBus + LPC pin connector
		VIA Nano™ E processor
		Front panel pin connector
VGA + USB pin connector		VIA VX855 chipset
HDMI		USB pin connector
IDMI		SATA connector
LAN pin connector		Audio pin connector
and part contractor		SATA power
IDE connector (2.0mm 44-pin)	minimum u	

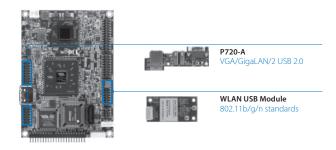
Specifications

Model Name	EPIA-P820-12L		
Processor	1.2 GHz VIA Nano™ E		
Chipset	VIA VX855 Unified Digital Media IGP chipset		
System Memory	1 x DDR2 800/667 SODIMM socket		
	Up to 2GB memory size		
VGA	Integrated VIA Chrome9™ 3D/2D AGP graphics with MPEG-2, WMV9 & H.264 video		
	decoding acceleration		
Onboard IDE	1 x IDE 2.0mm 44-pin pin header		
Onboard Serial ATA	1 x SATA connector		
Onboard LAN	1 x VIA VT6122 Gigabit Ethernet controller		
Onboard Audio	1 x VIA VT1708S High Definition Audio Codec		
Onboard I/O Connectors	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		
Back Panel I/O	1 x HDMI port		
	1 x VGA port		
	1 x GigaLAN port		
	2 x USB 2.0 ports		
BIOS	AMI BIOS		
	4Mbit LPC flash memory		
Operating System	Windows XP, Windows Embedded CE, Windows Embedded Standard, Linux		
System Monitoring &	Wake-on LAN, Keyboard Power-on, Timer Power-on		
Management	System power management, AC power failure recovery		
	Watch Dog Timer		
Operating Temperature	0°C ~ 60°C		
Operating Humidity	0% ~ 95% (relative humidity; non-condensing)		
Form Factor	Pico-ITX		
	10 cm x 7.2 cm		
Compliance	CE/FCC/BSMI/RoHS		
	Pico-ITX 10 cm x 7.2 cm		



Back Panel I/O Accessories

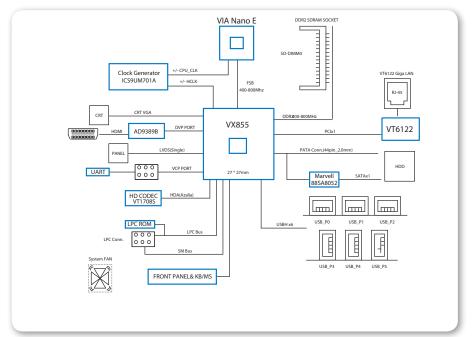




Ordering Information

Model Name	CPU Frequency	Description
P820-12L	1.2 GHz Nano™ E	Pico-ITX Board with 1.2 GHz Nano™ E 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 CD