Embedded Systems

VIPRO VP7806

Fanless Panel PC with 6.5" TFT LCD and Touch Screen



Features

- Fanless and ultra low power consumption
- Built-in VIA new generation 1.3GHz VIA Nano™ E processor with L2 cache 1MB memory
- 6.5" TFT LCD panel with 5-wire resistive touch screen
- Built-in 2M CMOS camera, speakers and microphone on the front
- Integrated VIA Chrome9[™] HC3, DX9 3D/2D graphics & video processor with MPEG-2 and WMV9 decoding acceleration
- Supports two Gigabit Ethernets, four COM ports and four USB 2.0 ports
- IP65 front panel compliant against water and dust

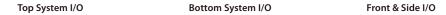


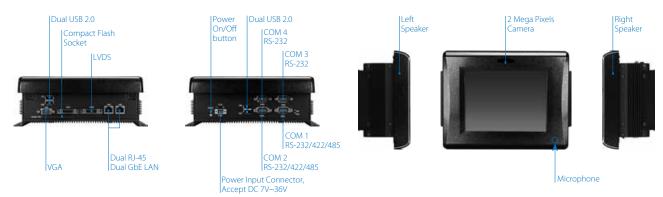


Specifications

Model Name	<u> </u>	VIPRO VP7806
Computing System	Processor	1.3GHz VIA Nano™ E
	Front Side Bus	800 MHz
	L2 Cache	1 MB
	Chipset	VIA VX800 Unified Digital IGP chipset
	BIOS	Award 8MBit SPI Flash BIOS
		Supports Diskless Boot to BIOS ROM (Free DOS operation
		system environment)
	System Power	Times Power on, ACPI supported
	Management	
Memory	Technology	1 x DDR2 533/667 200-pin SDRAM SODIMM socket
	Max. Capacity	Up to 2GB memory size
Graphic	Controller	Integrated VIA Chrome9™ HC3 DX9 3D/2D graphics with MPEG-2 WMV9 decoding acceleration
	Display Memory	Optimized shared memory architecture, supports up to 256 Mb frame buffer using system memory
	External Display interface	Supports 1 x External VGA port by a DB-9 connector Supports 1 x 24-bit signal channel LVDS interface by a DB-26 connector
LCD Display	LCD Type	6.5" color TFT LCD panel, LED driving
	Resolution/Color	Up to 640 x 480 @262K
	Pixel Pitch (mm)	0.207 x 0.207
	Viewing Angle	80° (right), 80° (left), 70° (up) and 70° (down)
	Luminance (cd/m²)	700 cd/m ²
	LED Backlight MTBF	50,000 hours (typical)
Touch Screen	Туре	5-Wire Analog resistive
	Transparency	80% ± 3%
	Controller	Built-in system a EETI ETP-CP-S5XU, USB interface controller
	Software Driver	Supports Windows XP and Windows 7
	Durability (Knock Test)	
Ethernet	Controller	Built-in system two VIA VT6130 Gigabit Ethernet controllers
	Interface	Supports two RJ45 connector
		Supports Wake-on LAN (WOL)
		Supports Preboot Execution Environment (PXE)
Audio	Controller	VIA VT1708B High Definition Audio Codec
	External Speakers	Supports left and right speakers on front bezel
	External Microphone	Supports microphone on front bezel
Serial	USB	4 x USB ports, USB 2.0 compliant
	Serial Ports	4 x COM ports of 2 x RS-232 & 2x RS-232/422/485 (BIOS
		selectable)
Storage	HDD	1 x 2.5" drive bay
-	Compact Flash	1 x Type I /II socket
System Indicator	Power Status LED	1 x Green color LED
	HDD Activity LED	1 x Red color LED







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Other	Camera	Built-in a 2 Mega Pixels of CMOS camera on the front bezel
Watchdog Timer	Output	System reset
	Interval	Programmable 1~255 sec
System I/O	Top I/O Coastline on PC Unit	1 x DB-9 connector for a VGA/CRT interface 2 x USB mini-DIN connectors 1 x DB-26 connector for a 24-bit single channel LVDS interface 2 x RJ45 connectors for dual Gigabit Ethernet connection
	Bottom I/O coastline on PC Unit	1 x HDD & PWR LED 2 x RS-232/422/485 COM port connectors as COM 1 and COM2 2 x RS-232 COM port connectors as COM3 and COM4 2 x USB mini-DIN connectors 1 x 2-pole of Phoenix power input connector 1 x ATX power on/off switch
Power Supply	Input Voltage	Built-in onboard DC-to-DC converter Accept wide range of power input of DC 7V ~ 36V Typical power input 7 VDC @ 2.64 A 12 VDC @ 1.54 A 16 VDC @ 1.15 A 19 VDC @ 0.97 A 24 VDC @ 0.51 A
	Input Power Protection	Supports over voltage protection, Supports over current protection, Supports under voltage protection
Mechanical	Construction	Aluminum mixed with heavy-duty steel
	Mounting	Panel/wall mountable
	Dimensions	203mm (W) x 165mm (H) x 78.42mm (D) (7.9" x 6.5" x 3")
	Weight	3 kg (6.6 lbs)
Environmental Specification	Operating Temperature	0°C ~ 45 °C for HDD, -20 ~ 60°C for CF
	Storage Temperature	-20°C ~ 70 °C
	Relative Humidity	0 ~ 90% @ 45°C, non-condensing
	Vibration Loading During Operation	When system is equipped with 2.5" hard disk drive: up to 1Grms, IEC 60068-2-64, random, 5 ~ 500Hz, 1 Oct./min, 1hr/axis When system is equipped with Compact Flash disk: up to 5Grms, IEC 60068-2-64 random, 5 ~ 500Hz, 1 Oct./min, 1hr/axis
	Shock During Operation	When system is equipped with 2.5" hard disk drive: up to 20G, IEC 60068-2-27, half size, 11ms duration When system is equipped with Compact Flash disk: up to 50G, IEC 60068-2-27, half size, 11ms duration
	Front Panel Protection	IP65 compliant
	EMC Approved	CE, FCC Class A
	Front Panel Protection	IP65 compliant
Software Compatibility	Operation System	Microsoft Widows XP, Windows 7, Windows XP Embedded Standard, Windows Embedded Standard 7, Debian Linux 6 (Kernel 2.6.32)

Ordering Information

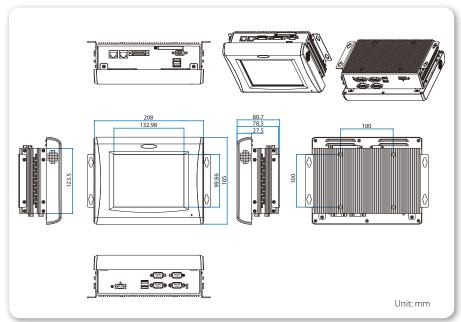
Part Number	System Built-in CPU	Description
VP-7806-R1N13A2	1.3GHz Nano™ E	1.3GHz Nano™ E CPU Based Fanless 6.5"Touch Panel PC, with VGA, LVDS, 4 x USB 2.0, 4 x COM, 2 x GbE,
		Microphone, 2Mega Pixels Camera, Left/Right Speakers, DC-in 7~36V
VP-7806-R2N13A2	1.3GHz Nano™ E	1.3GHz Nano™ E CPU Based Fanless 6.5" Touch Panel PC, with VGA, LVDS, 4 x USB 2.0, 4 x COM, 2 x GbE,
		Microphone, 2Mega Pixels Camera, Left/Right Speakers, DC-in 7~36V, Black Front Bezel
VP-7806-R3N13A2	1.3GHz Nano™ E	1.3GHz Nano™ E CPU Based Fanless 6.5" Resistive Touch Panel PC, with VGA, LVDS, 4 x USB 2.0, 4 x COM, 2 x GbE, Left/Right Speakers, DC-in 7~36V, Black Front Bezel, W/O Microphone-In, 2Mega Pixels Auto-Focus Camera

Optional Accessories

*Note: The optional accessories may have minimum ordering quantity limitation. Please contact VIA Sales representative for more details.

External AC-to-DC Adapter and Power Cable				
Part Number	Description			
99G63-020246	AC-to-DC adapter, DC 19V/90W with 2-pole Phoenix power plug			
99G33-02032C	Power cable, 180 cm, USA type			
99G33-02033C	Power cable, 180 cm, Europe type			
Embedded OS (Only	available for T-Parts OEM service)			
Part Number	Description			
POS-MEXSLI-ENS06	Windows XP Embedded Standard Image & License For VP7806 Resistive English Version			
POS-ME7SLI-ENS06	Windows Embedded Standard 7 32-bit Image & License For VP7806 Resistive English Version			
POS-DLNXLI-ENS06	Linux Debian 6 (Kernel 2.6.32) Image & License For VP-7806 Resistive English Version			
Certificated RAM Mo	odule, Flash Disk, and 2.5" Hard Disk Drive			
Part Number	Description			
99G06-010598	2GB DDR2 800MHz, 128Mx8 SDRAM SODIMM, 0 ~ 85°C			
99G06-010588	1GB DDR2 800MHz, 128Mx8 SDRAM SODIMM, 0 ~ 85°C			
99G61-060011	1GB Compact Flash Disk, industrial grade, -40°C ~ 85°C			
99G61-060021	2GB Compact Flash Disk, industrial grade, -40 $^{\circ}$ C \sim 85 $^{\circ}$ C			
99G61-060031	4GB Compact Flash Disk, Innodisk, industrial grade, -40°C ~ 85°C			

Dimensions



Packing List

- 1 x VP-7806 unit
- 2 x Wall-mount bracket
- 2 x Panel-mount bracket
- 1 x Power cable, 2-pole Phoenix plug to DC-Jack
- 1 x Tube of Syringe with 0.5cc thermally conductive dispensable gel

 $^{^{*}}$ All product specifications are subject to change without notice. Update: June 26, 2012.