

## Embedded Systems

NEW

### VIA VIPRO VP7815

Fanless Panel PC with 15" TFT LCD and Touch Screen



#### Features

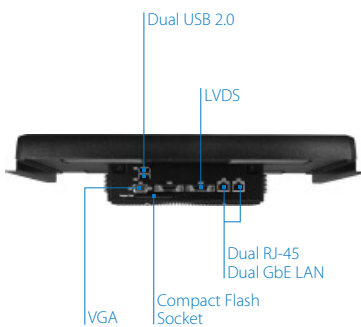
- Fanless and ultra low power consumption
- Built-in VIA new generation of 1.3GHz Nano™ E processor with L2 cache 1MB memory
- 15" TFT LCD panel with 5-wire resistive touch screen
- Built-in 2M CMOS camera, speakers and microphone on the front
- Integrated VIA Chrome9™ HC3 DX9 3D/2D graphics & video 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



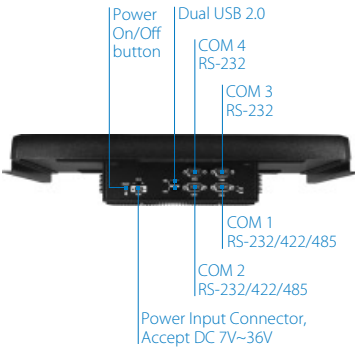
#### Specifications

<b>Model Name</b>	VIPRO VP7815	
<b>Computing System</b>	<b>Processor</b>	1.3GHz VIA Nano™ E
	<b>Front Side Bus</b>	800 MHz
	<b>L2 Cache</b>	1 MB
	<b>Chipset</b>	VIA VX800 Unified Digital IGP chipset
	<b>BIOS</b>	Award 8MBit SPI Flash BIOS Supports Diskless Boot to BIOS ROM (Free DOS operation system environment)
<b>System Power Management</b>	Times Power on, ACPI supported	
<b>Memory</b>	<b>Technology</b>	1 x DDR2 533/667 200-pin SDRAM SODIMM socket
	<b>Max. Capacity</b>	Up to 2GB memory size
<b>Graphic</b>	<b>Controller</b>	Integrated VIA Chrome9™ HC3 DX9 3D/2D graphics & video processor with MPEG-2 WMV9 decoding acceleration
	<b>Display Memory</b>	Optimized shared memory architecture, supports up to 256 MB frame buffer using system memory
	<b>External Display interface</b>	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
<b>LCD Display</b>	<b>LCD Type</b>	15" color TFT LCD panel, LED driving
	<b>Resolution/Color</b>	Up to 1024 x 768 @262K
	<b>Pixel Pitch (mm)</b>	0.297 x 0.297
	<b>Viewing Angle</b>	80° (right), 80° (left), 80° (up) and 60° (down)
	<b>Luminance (cd/m<sup>2</sup>)</b>	350 cd/m <sup>2</sup>
	<b>LED Backlight MTBF</b>	50,000 hours (typical)
<b>Touch Screen</b>	<b>Type</b>	5-Wire Analog resistive      5-Wire Analog capacitive
	<b>Transparency</b>	80% ± 3%                              95% ± 3%
	<b>Controller</b>	USB interface controller      USB interface controller EETI ETP-CP-S5XU                  ETP-MB-ESCAP7000
	<b>Software Driver</b>	Supports Windows XP, and Windows 7
	<b>Durability (Knock Test)</b>	35 million times                          200 million times
<b>Ethernet</b>	<b>Controller</b>	Built-in system two VIA VT6130 Gigabit Ethernet controllers
	<b>Interface</b>	Supports two RJ45 connectors Supports Wake-on LAN (WOL) Supports Preboot Execution Environment (PXE)
<b>Audio</b>	<b>Controller</b>	VIA VT1708B High Definition Audio Codec
	<b>External Speakers</b>	Supports 2 x speakers on left and right edge of front bezel
	<b>External Microphone</b>	Supports microphone on lower site of front bezel
<b>Serial</b>	<b>USB</b>	4 x USB ports, USB 2.0 compliant
	<b>Serial Ports</b>	4 x COM ports of 2 x RS-232 & 2x RS-232/422/485 (BIOS selectable)
<b>Storage</b>	<b>HDD</b>	1 x 2.5" drive bay
	<b>Compact Flash</b>	1 x Type I/II socket
<b>System Indicator</b>	<b>Power Status LED</b>	1 x Red color LED
	<b>HDD Activity LED</b>	1 x Green color LED

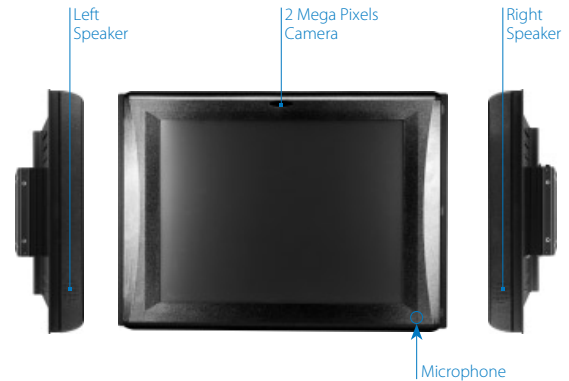
### Top System I/O



### Bottom System I/O



### Front & Side I/O



## Specifications

<b>Model Name</b>	VIPRO VP7815	
<b>Other</b>	<b>Camera</b>	Built-in a 2 Mega Pixels of CMOS camera on the front bezel
<b>Watchdog Timer</b>	<b>Output</b>	System reset
	<b>Interval</b>	Programmable 1~255 sec
<b>System I/O</b>	<b>Top I/O Coastline on PC Unit</b>	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
	<b>Bottom I/O coastline on PC Unit</b>	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
<b>Power Supply</b>	<b>Input Voltage</b>	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 @ 0.77 A 36 VDC @ 0.51 A
	<b>Input Power Protection</b>	Supports over voltage protection Supports over current protection Supports under voltage protection
<b>Mechanical</b>	<b>Construction</b>	Aluminum mixed with heavy-duty steel
	<b>Mounting</b>	Panel/wall/table mountable
	<b>Dimensions (W x H x D)</b>	400 x 303 x 80.96 mm (15.7" x 11.9" x 3.18")
	<b>Weight</b>	5 kg ( 11 lbs )
<b>Environmental Specification</b>	<b>Operating Temperature</b>	0°C ~ 45 °C for HDD, -20 ~ 60°C for CF
	<b>Storage Temperature</b>	-20°C ~ 70 °C
	<b>Relative Humidity</b>	0 ~ 90% @ 45°C, non-condensing
	<b>Vibration Loading During Operation</b>	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
	<b>Shock During Operation</b>	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
	<b>Front Panel Protection</b>	IP65 compliant
	<b>EMC Approved</b>	CE, FCC Class A
	<b>Safety Approved</b>	CB, CCC
	<b>Front Panel Protection</b>	IP65 compliant
<b>Software Compatibility</b>	<b>Operation System</b>	Microsoft Widows XP, Windows 7, Windows XP Embedded, Ubuntu Linux

## Ordering Information

Part Number	System Built-in CPU	Description
VP-7815-R1N13A1	1.3GHz Nano™ E	1.3GHz Nano™ E CPU Based Fanless 15" Resistive 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-7815-C1N13A1	1.3GHz Nano™ E	1.3GHz Nano™ E CPU Based Fanless 15" Capacitive 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

## Optional Accessories

### External AC-to-DC Adapter and Power Cable

Part Number	Description
99G63-020186	AC-to-DC adapter, DC 19V/90W with 2-pole Phoenix power plug
99G33-02058C	Power cable, 180 cm, USA type
99G33-02057C	Power cable, 180 cm, Europe type

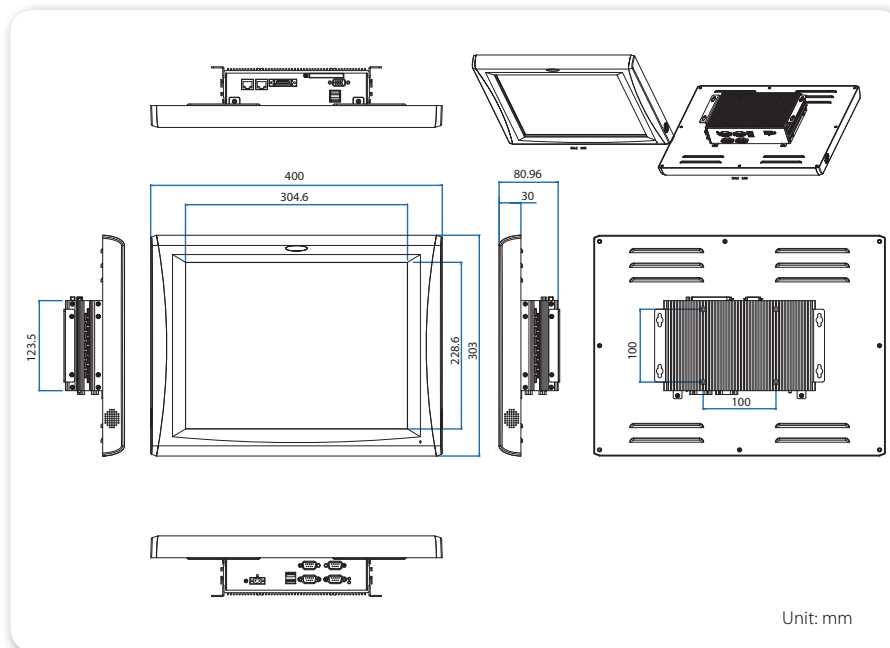
### Embedded OS (Only available for T-Parts OEM service)

Part Number	Description
POS-MEXSLI-ENS07	Windows XP Embedded Standard Image & License For VP7815 Resistive English Version
POS-MEXSLI-ENS08	Windows XP Embedded Standard Image & License For VP7815 Capacitive English Version
POS-ME7SLI-ENS07	Windows Embedded Standard 7 Image & License For VP7815 Resistive English Version
POS-ME7SLI-ENS08	Windows Embedded Standard 7 Image & License For VP7815 Capacitive English Version

### RAM Module, Flash Disk, and 2.5" Hard Disk Drive

Part Number	Description
99G06-010408	2GB DDR2 667MHz, 128Mx8 SDRAM SODIMM, industrial grade, for using at environmental temperature up to 50°C
99G06-010398	1GB DDR2 667MHz, 128Mx8 SDRAM SODIMM, industrial grade, for using at environmental temperature up to 50°C
99G06-010338	1GB DDR2 667MHz, 64Mx8 SDRAM SODIMM, industrial grade, Tc of 0 ~ 85°C
99G61-060011	1GB Compact Flash Disk, industrial grade, -40°C ~ 85°C
99G61-060021	2GB Compact Flash Disk, industrial grade, -40°C ~ 85°C
99G61-060031	4GB Compact Flash Disk, Innodisk, industrial grade, -40°C ~ 85°C
99G61-020114	250GB, Fujitsu 2.5" SATA HDD 5400RPM

## Dimensions



## Packing List

- 1 x VP-7815 unit
- 1 x Driver & Utility CD disk
- 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