

# CV-W115/P1001 Series

15.6" TFT WXGA 16:9 Panel PC with Resistive 5-wire / Projected Capacitive Touch, w/ Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA and 1x DisplayPort



## POWER EFFICIENT INDUSTRIAL PANEL PC

| CV-100/P1000 Series |

### Overview

[CONTACT](#)

The 15.6" wide screen (16:9) all-in-one panel PC offers LED backlight LCD with resolution up to 1366x768 (WXGA) and 400 nits brightness. CV-W115/P1001 Series features flat surface and IP65 dust/waterproof front panel. In addition, designed with aluminum die-casting front frame with rugged body structure that can be able to apply in industrial applications. CV-W115/P1001 Series supports Convertible Display System (CDS) technology which makes it more flexible in system maintaining and upgrading. CV-W115/P1001 Series carries single touch function with resistive 5-wire touch screen or multi-touch function with projected capacitive touch screen. By incorporating with Intel® Atom™ E3845 processor and DDR3L memory, CV-W115/P1001E Series offers extensive I/O including 4x USB, 2x RS-232/422/485, 1x VGA, 1x DisplayPort, 4x DI / 4x DO. Besides, the panel PC also includes 2x Universal I/O Bracket. (For P1001E only) CV-W115/P1001 Series supports 3G and WLAN via 2x GbE and 1x Mini-PCIe slot. Furthermore, there are 3 types of storage devices including 2.5" SATA HDD, CFast and SIM card. The accessible design of these storage devices allow quick data access and easy maintenance. Supporting wide range power DC input from 9 ~ 48VDC, CV-W115/P1001 Series can be deployed and powered for various industrial applications.

### Key Features

- 15.6" TFT WXGA 16:9 LCD with Resistive 5-wire / Projected Capacitive Touch
- Designed with Aluminum Die-Casting Front Frame
- Onboard Intel® Atom™ E3845 Processor Quad Core, 1.91GHz
- 1x DDR3L SO-DIMM max. up to 8GB
- 1x 2.5" SATA HDD Bay, 1x CFast Card and 1x SIM Card Socket
- 2x LAN, 4x USB, 2x COM, 1x VGA, 1x DisplayPort, 4x DI / 4x DO
- 1x Mini-PCIe Expansion Socket
- IP 65 Compliant Front Panel
- Supports Panel / VESA / Rack Mounting
- Convertible Display System (CDS) Supported
- Built-in Two 2W Internal Speakers
- 2x Universal I/O Brackets(For P1001E only)

### Certifications



## CV-W115 Series Specifications

Model Name	CV-W115R	CV-W115C
<b>Display</b>		
LCD Size	• 15.6" (16:9)	
Max. Resolution	• 1366 x 768 (WXGA)	
Brightness (cd/m2)	• 400	
Contrast Ratio	• 500 : 1	
LCD Color	• 16.2M	
Pixel Pitch (mm)	• 0.252 (H) x 0.252 (V)	
Viewing Angle (H-V)	• 170 / 160	
Backlight MTBF	• 50,000 hrs (LED Backlight)	
<b>Touch Screen</b>		
Touch Type	• Resistive 5-wire	• Projected Capacitive
<b>Physical</b>		
Dimension ( W x D x H )	• 420 x 254 x 66.2 mm	
Weight Information	• 4.25 kg	
Mechanical Construction	• Die-Casting Flat Surface	
<b>Environment</b>		
Front Panel Protection	• IP 65 Compliant	
Surge Protection	• 2kV	
Operating Temperature	• 0°C to 60°C (with Industrial Grade peripherals; Ambient with air flow)	
Storage Temperature	• -20°C to 60°C	
Relative Humidity	• 80% RH @ 50°C (Non-condensing)	
EMC	• CE, UKCA, FCC, ICES-003 Class A	
EMI	<ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 55032 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN61000-3-3 Voltage fluctuations &amp; flicker</li> <li>• FCC 47 CFR Part 15B, ICES-003 Conducted &amp; Radiated: Class A</li> </ul>	
EMS	<ul style="list-style-type: none"> <li>• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV</li> <li>• EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m</li> <li>• EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV</li> <li>• EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV</li> <li>• EN/IEC 61000-4-6 CS: 3V</li> <li>• EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m</li> <li>• EN/IEC 61000-4-11 Voltage Dips &amp; Voltage Interruptions: 0.5 cycles at 50 Hz</li> </ul>	
Safety	• UL, cUL, CB, IEC, EN 62368-1	

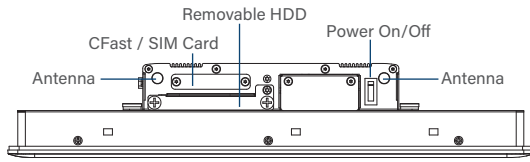
## P1001 Series Specifications

Model Name	P1001	P1001E
<b>System</b>		
Processor	<ul style="list-style-type: none"> <li>Onboard Intel® Atom™ Processor E3845 Quad Core, 1.91 GHz</li> </ul>	
Memory	<ul style="list-style-type: none"> <li>1x DDR3L 1066/1333 MHz SO-DIMM Socket (un-buffered and non-ECC)</li> <li>Support up to 8 GB</li> </ul>	
BIOS	<ul style="list-style-type: none"> <li>AMI 64Mbit SPI BIOS</li> </ul>	
<b>Graphics</b>		
CDS (Convertible Display System) Technology	<ul style="list-style-type: none"> <li>1x Convertible Display System (CDS) Interface</li> </ul>	
VGA	<ul style="list-style-type: none"> <li>1x VGA Connector (1920x1080@60Hz)</li> </ul>	
DP	<ul style="list-style-type: none"> <li>1x DisplayPort Connector (1920x1080@60Hz)</li> </ul>	
<b>Audio</b>		
Line-out	<ul style="list-style-type: none"> <li>1x Line-out, Phone Jack 3.5mm</li> </ul>	
Mic-in	<ul style="list-style-type: none"> <li>1x Mic-in, Phone Jack 3.5mm</li> </ul>	
<b>I/O</b>		
LAN	<ul style="list-style-type: none"> <li>2x GbE LAN (Supports WoL, Teaming, Jumbo Frame &amp; PXE), RJ45</li> <li>- GbE1: Intel® I210</li> <li>- GbE2: Intel® I210</li> </ul>	
USB	<ul style="list-style-type: none"> <li>1x USB 3.2 Gen1 (Type A), 3x USB 2.0 (Type A)</li> </ul>	
Serial Port	<ul style="list-style-type: none"> <li>2x RS-232/422/485 with Auto Flow Control Support, DB9</li> </ul>	
DIO	<ul style="list-style-type: none"> <li>8x Isolated Digital I/O (4in/4out)</li> </ul>	
<b>Storage</b>		
SSD/HDD	<ul style="list-style-type: none"> <li>1x 2.5" HDD/SSD Drive</li> </ul>	
SIM Card	<ul style="list-style-type: none"> <li>1x Front Accessible SIM Socket</li> </ul>	
CFast	<ul style="list-style-type: none"> <li>1x Front Accessible CFast Socket</li> </ul>	
<b>Expansion</b>		
Mini PCI Express	<ul style="list-style-type: none"> <li>1x Full-size Mini-PCIe Socket for Wi-Fi/GSM/Expansion Module</li> </ul>	
Universal Bracket		<ul style="list-style-type: none"> <li>2x Universal I/O Bracket</li> </ul>
<b>Other Function</b>		
Watchdog Timer	<ul style="list-style-type: none"> <li>Software Programmable Supports 256 Levels System Reset</li> </ul>	
Internal Speaker	<ul style="list-style-type: none"> <li>AMP 2W + 2W</li> </ul>	
OSD Function	<ul style="list-style-type: none"> <li>LCD On/Off, Brightness Up, Brightness Down</li> </ul>	
Reset Button	<ul style="list-style-type: none"> <li>1x Reset Button</li> </ul>	
<b>Power</b>		
Power Button	<ul style="list-style-type: none"> <li>1x ATX Power On/Off Switch</li> </ul>	
Power Mode Switch	<ul style="list-style-type: none"> <li>1x AT/ATX Mode Switch</li> </ul>	
Power Input	<ul style="list-style-type: none"> <li>1x 3-pin Terminal Block Connector with Power Input 9~48VDC</li> </ul>	
Power Adapter (Optional)	<ul style="list-style-type: none"> <li>1x Optional AC/DC 12V/5A, 60W</li> </ul>	

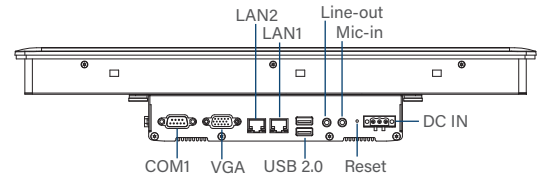
<b>Physical</b>		
Dimension ( W x D x H )	• 204.5 x 149 x 37.5 mm	• 204.5 x 150 x 60 mm
Weight Information	• 1.34kg	• 1.54kg
Mechanical Construction	• Extruded Aluminum with Heavy Duty Metal	
Mounting	• Wall / VESA / CDS Mounting	
Physical Design	<ul style="list-style-type: none"> <li>• Fanless Design</li> <li>• Jumper-less Design</li> </ul>	
<b>Reliability &amp; Protection</b>		
Reverse Power Input	• Yes	
Over Voltage Protection	<ul style="list-style-type: none"> <li>• Protection Range: 51~58V</li> <li>• Protection Type: shut down operating voltage, re-power on at the present level to recover</li> </ul>	
Over Current Protection	• 20A	
<b>Operating System</b>		
Microsoft® Windows®	<ul style="list-style-type: none"> <li>• Windows® 10, Windows® 8, Windows® 7</li> <li>• Windows® Embedded 8 Standard, Windows® Embedded Standard 7</li> </ul>	
Linux	• Supports by project	
<b>Environment</b>		
Operating Temperature	• Ambient with Air Flow: -20°C to 70°C (with Industrial Grade Peripherals)	
Storage Temperature	• -30°C to 85°C	
Relative humidity	• 10%~95% RH (Non-condensing)	
Shock	• Operating, 15 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	
Vibration	• Operating, 1 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)	
EMC	• CE, UKCA, FCC, ICES-003 Class A	
EMI	<ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 55032 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN61000-3-3 Voltage fluctuations &amp; flicker</li> <li>• FCC 47 CFR Part 15B, ICES-003 Conducted &amp; Radiated: Class A</li> </ul>	
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**CV-W115/P1001 External Layout**

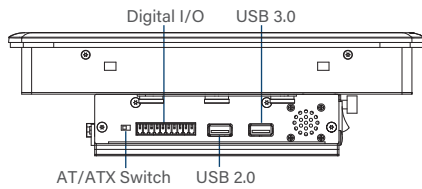
Front I/O



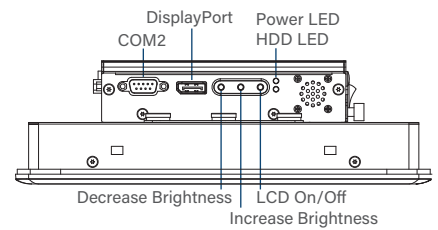
Rear I/O



Left I/O

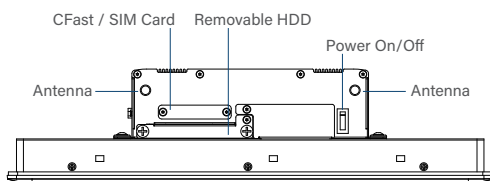


Right I/O

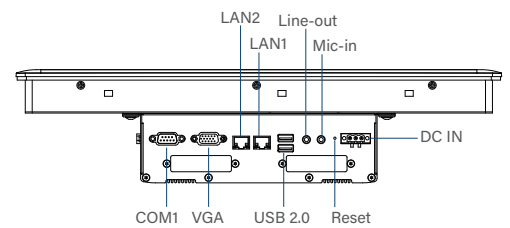


**CV-W115/P1001E External Layout**

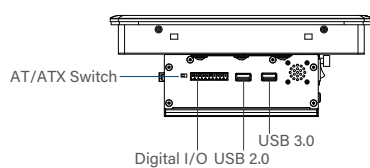
Front I/O



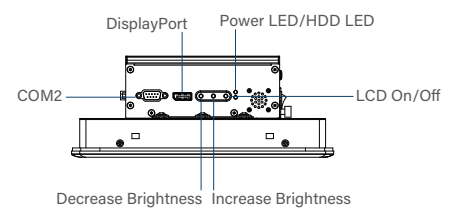
Rear I/O



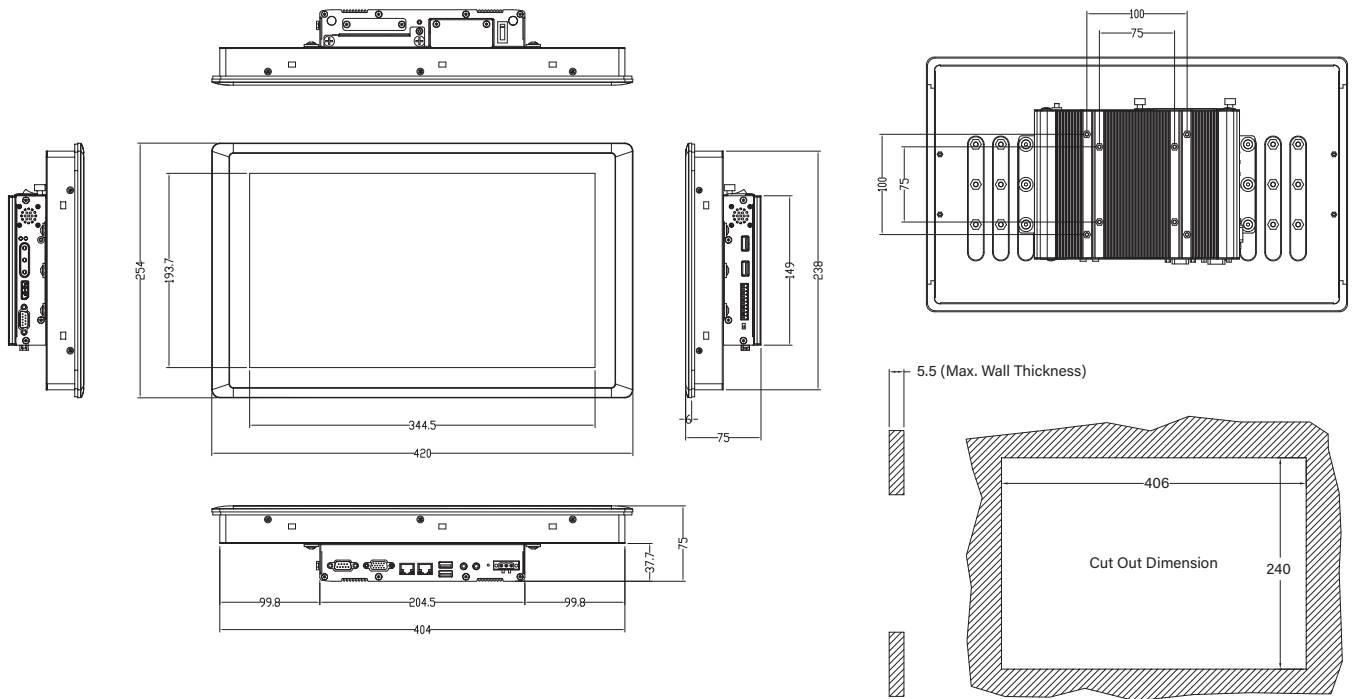
Left I/O



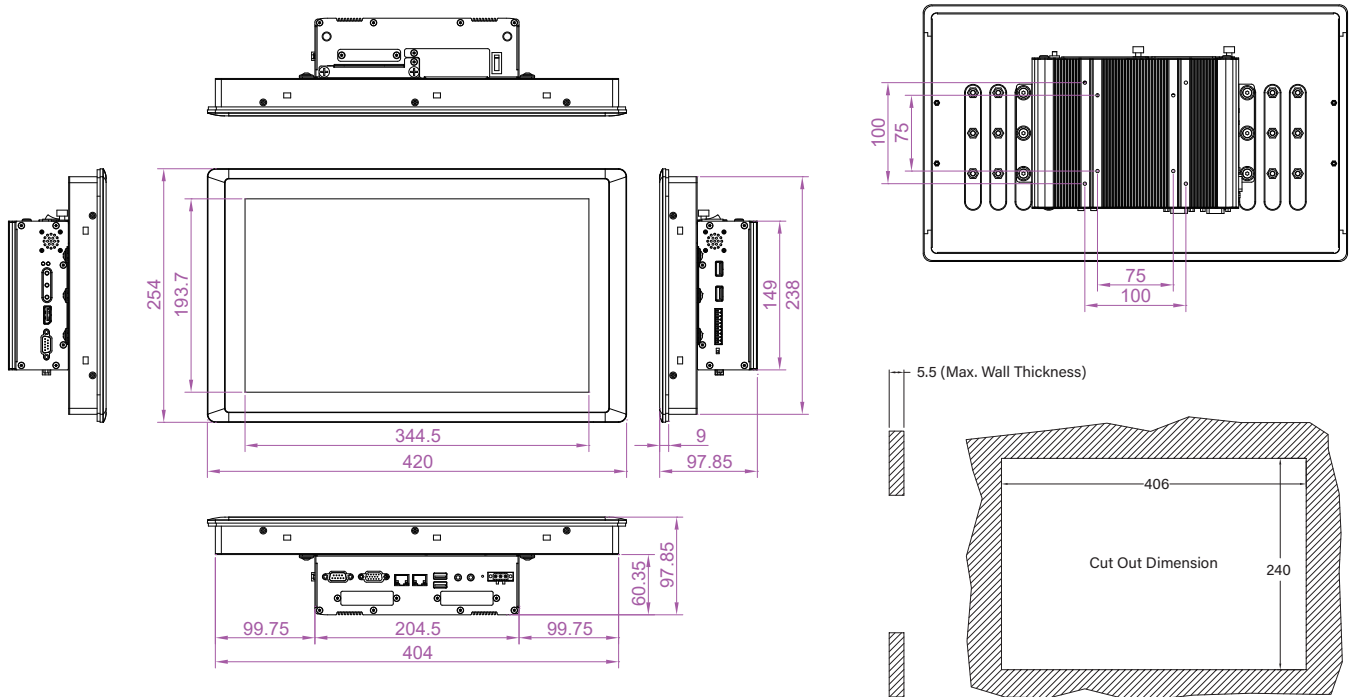
Right I/O



**CV-W115/P1001 Dimensions**



**CV-W115/P1001E Dimensions**



## Ordering Information

### Available Models

Model No.	Description
CV-W115R-R10/P1001-R10	15.6" TFT WXGA 16:9 Panel PC with Resistive 5-wire Touch, w/ Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA and 1x DisplayPort
CV-W115C-R11/P1001-R10	15.6" TFT WXGA 16:9 Panel PC with Projected Capacitive Touch, w/ Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA and 1x DisplayPort
CV-W115R-R10/P1001E-R10	15.6" TFT WXGA 16:9 Panel PC with Resistive 5-wire Touch, with Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA, 1x DisplayPort and 2x Universal I/O Bracket
CV-W115C-R11/P1001E-R10	15.6" TFT WXGA 16:9 Panel PC with Projected Capacitive Touch, with Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA, 1x DisplayPort and 2x Universal I/O Bracket

### Model Configuration

	CV-W115R	CV-W115C	P1001	P1001E
CV-W115R/P1001	V	--	V	--
CV-W115C/P1001	--	V	V	--
CV-W115R/P1001E	V	--	--	V
CV-W115C/P1001E	--	V	--	V

V : Compatible

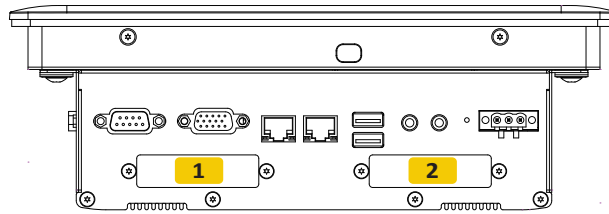
### Package Checklist




• CV-W115/P1001 Series Panel PC x 1	• Power Terminal Block Connector (Female) x 1
• Panel Mounting Kit x 1	• HDD Screw Pack x 1
• DIO Terminal Block Connector (Female) x 1	• Mini PCIe Screw Pack x 1

### Optional Modules and Accessories

Model No.	Description
MEC-COM-M212-DB9	Mini-PCIe Module with 2x COM Ports, 1x Standard DB9 Cable (For P1001E only)
MEC-LAN-M102-30	Mini-PCIe Module with 2x LAN Ports, 2x 30cm cable (For P1001E only)
MEC-USB-M102-30	Mini-PCIe Module with 2x USB 3.2 Gen1 Ports, 1x 30cm cable (For P1001E only)
UB0303	2x Universal Bracket each with 1x DB9 Cutout (For P1001E only)
UB0311	1x Universal Bracket with 2x RJ45 Cutout (For P1001E only)
UB0314	1x Universal Bracket with 2x USB Cutout (For P1001E only)
URM01	Universal 19" Rack Mount Kit for Industrial Panel PC & Industrial Monitor
GST60A12-CIN1	Adapter AC/DC 12V 5A 60W, GST60A12-CIN1, wide temp (-30°C ~ +70°C)
SL2-SL3	US 2 heads power cord, US B type to IEC C13, SVT 18AWG/3C Black 1.8M SL-2+SL-3
SL6-SL3	EU 2 heads power cord, EU G type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M SL-6+SL-3
QP026-SL3	UK 2 heads power cord, UK I type to IEC C13, H05VV-F 0.75mm2/3G Black 1.8M QP026+SL-3

**Optional Module Configuration (For P1001E only)**



Model No.	Description	1	2
<p>MEC-COM-M212-DB9/UB0303</p> 	<p>Mini-PCle Module with 2x COM Ports, 1x Standard DB9 Cable, 2x Universal Bracket each with 1x DB9 Cutout</p>	V	V
<p>MEC-LAN-M102-30/UB0311</p> 	<p>Mini-PCle Module with 2x LAN Ports, 2x 30cm cable, w/ 1x Universal Bracket with 2x RJ45 Cutout</p>	V	V
<p>MEC-USB-M102-30/UB0314</p> 	<p>Mini-PCle Module with 2x USB 3.2 Gen1 Ports, 1x 30cm cable, 1x Universal Bracket with 2x USB Cutout</p>	V	V

V : Compatible