The 8.4" all-in-one panel PC offers LED backlight LCD with resolution up to 800x600 (SVGA) and 400 nits brightness. CV-108/P1001 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 applied in industrial applications. CV-108/P1001 supports Convertible Display System (CDS) technology which makes it more flexible in system maintaining and upgrading. CV-108/P1001 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-108/P1001 offers extensive I/O including 4x USB, 2x RS232/422/485, 1x VGA, 1x DisplayPort and 4 DI / 4 DO. CV-108/P1001 supports 3G and WLAN via 2x GbE and 1x Mini-PCIe slot. Furthermore, they 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-108/P1001 can be deployed and powered for various industrial applications.

**Key Features**
- 8.4” TFT SVGA 4:3 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 4GB
- 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 Speaker

**Overview**
The 8.4” all-in-one panel PC offers LED backlight LCD with resolution up to 800x600 (SVGA) and 400 nits brightness. CV-108/P1001 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 applied in industrial applications. CV-108/P1001 supports Convertible Display System (CDS) technology which makes it more flexible in system maintaining and upgrading. CV-108/P1001 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-108/P1001 offers extensive I/O including 4x USB, 2x RS232/422/485, 1x VGA, 1x DisplayPort and 4 DI / 4 DO.

CV-108/P1001 supports 3G and WLAN via 2x GbE and 1x Mini-PCIe slot. Furthermore, they 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-108/P1001 can be deployed and powered for various industrial applications.

**Specifications**

**Display**
- LCD Size: 8.4” (4:3)
- Max. Resolution: 800 x 600
- Brightness (cd/m2): 400
- Contrast Ratio: 600 : 1
- LCD Color: 262K
- Pixel Pitch (mm): 0.213 (H) x 0.213 (V)
- Viewing Angle (H-V): 150 / 130
- Backlight MTBF: 30000 hrs (LED Backlight)

**Touch**
- Resistive 5-wire Touch for CV-108R/P1001 Only
- Projected Capacitive Touch for CV-108C/P1001 Only

**Processor System**
- Onboard Intel® Atom™ Processor E3845 Quad Core, 1.91 GHz with AMI 64Mbit SPI BIOS

**Memory**
- 1x 204-Pin SO-DIMM DDR3L 1066 / 1333MHz (un-buffered and non-ECC), max. up to 4GB

**Ethernet**
- 2 x Intel® i210-IT GbE LAN Port, Support Wake-on-LAN and PXE

**Storage**
- 1x External 2.5” SATA HDD Bay
- 1x External CFast Socket
- 1x External SIM Card Socket

**I/O Ports**
- 1x VGA
- 1x DisplayPort
- 1x USB 3.0
- 3x USB 2.0
- 2x DB9 for COM1~2, Support RS232/422/485 with Auto Flow Control
- 1x 4 Isolated DI & 4 Isolated DO Port
- 1x Line-out
- 1x Mic-in
- 1x Power Switch
- 1x Reset Button
- 1x AT/ATX Switch
Expansion
- 1x Full-size Mini PCIe Socket for Wi-Fi / GSM / Expansion Module

Other Features
- Watchdog Timer: Software Programmable Supports 256 Levels
- Audio: AMP 2W + 2W (Internal Speaker)
- OSD Function: LCD On/Off, Brightness Up/Down

Environment
- Operating Temperature: Ambient with air flow:
  - CV-108R/P1001: -20°C to 70°C
  - CV-108C/P1001: -20°C to 70°C
- Storage Temperature:
  - CV-108R/P1001: -30°C to 80°C
  - CV-108C/P1001: -20°C to 70°C
- Relative Humidity:
  - CV-108R/P1001: 80% RH @ 60°C (non-condensing)
  - CV-108C/P1001: 85% RH @ 60°C (non-condensing)
- IP Level: IP 65 Compliant Front Panel

Power
- Support AT, ATX Mode
- 1x 3-pin Terminal Block Connector with Power Input 9–48VDC
- 1x Optional AC/DC 12V/5A, 60W Power Adapter

Physical
- Dimension (WxDxH, mm): 262 x 186.2 x 65 mm
- Weight:
  - CV-108R/P1001: 2.96 kg
  - CV-108C/P1001: 2.92 kg
- Construction Front Panel: Die-Casting Flat Surface
- Mounting: Panel / VESA / *Rack Mounting (*with optional mounting kit)

Operating System
- Windows® 10
- Windows® 8.1
- Windows® 7

Certification
- CE
- FCC Class A

External I/O Mechanical Layout

Front I/O
- CFast / SIM Card
- Removable HDD
- Power On/Off
- Antenna

Rear I/O
- LAN1
- LAN2
- Line-out
- Mic-in
- DC IN
- COM1
- VGA
- USB 2.0
- Reset
- DisplayPort
- Power LED
- HDD LED

Left I/O
- Digital I/O
- AT/ATX Switch
- USB 2.0

Right I/O
- COM2
- DisplayPort
- Power LED
- HDD LED
- Decrease Brightness
- LCD On/Off
- Increase Brightness
- Cut Out Dimension

Dimensions

© Cincoze Co., Ltd. All Rights Reserved. Specifications subject to change without notice.
# Ordering Information

## Available Models

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-108R/P1001</td>
<td>8.4” TFT SVGA 4:3 Panel PC with Resitive 5-wire Touch, w/ Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA and 1x DisplayPort</td>
</tr>
<tr>
<td>CV-108C/P1001</td>
<td>8.4” TFT SVGA 4:3 Panel PC with Projected Capacitive Touch, w/ Intel® Atom™ E3845 Quad Core, 4x USB, 2x COM, 1x VGA and 1x DisplayPort</td>
</tr>
</tbody>
</table>

## Package Checklist

<table>
<thead>
<tr>
<th>CV-108/P1001</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• CV-108/P1001 Panel PC x 1</td>
<td>• Power Terminal Block Connector (Female) x 1</td>
<td></td>
</tr>
<tr>
<td>• Panel Mounting Kit x 4</td>
<td>• HDD Screw Pack x 1</td>
<td></td>
</tr>
<tr>
<td>• Utility DVD Driver x 1</td>
<td>• Mini PCIe Screw Pack x 1</td>
<td></td>
</tr>
<tr>
<td>• DIO Terminal Block Connector (Female) x 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Optional Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST60A12-CIN1</td>
<td>Adapter AC/DC 12V 5A 60W, GST60A12-CIN1, wide temp(-30°C ~ +70°C)</td>
</tr>
<tr>
<td>SL2-SL3</td>
<td>US 2 heads power cord, US B type to IEC C13, SVT 18AWG/3C Black 1.8M SL-2+SL-3</td>
</tr>
<tr>
<td>SL6-SL3</td>
<td>EU 2 heads power cord, EU G type to IEC C13, H05VV-F 0.75mm²/3G Black 1.8M SL-6+SL-3</td>
</tr>
<tr>
<td>QP026-SL3</td>
<td>UK 2 heads power cord, UK I type to IEC C13, H05VV-F 0.75mm²/3G Black 1.8M QP026+SL-3</td>
</tr>
<tr>
<td>URM01</td>
<td>Universal 19” Rack Mount Kit for Industrial Panel PC &amp; Industrial Monitor</td>
</tr>
</tbody>
</table>