

## 17.3 inch Panel PC | Series 1: ultra-flat Intel® Celeron® J6412 | brushed aluminum front



- 17.3" TFT LCD, 1920 x 1080 pixels
- Processor: Intel® Celeron® J6412
- Die-cast aluminum housing
- Flush frame design, IP65 front side
- Fanless cooling system

<https://www.wachendorff-prozesstechnik.de/en/PPC002-173A2>

### Description

WACHENDORFF Series-1 Panel PC

The WACHENDORFF Series-1 industrial panel PCs are available in display sizes ranging from 10" to 23.8" and can be equipped with projected capacitive, resistive or no touch. The projected capacitive touch enables multi-touch operation with an appropriate operating system. If pressure-sensitive operation is required (e.g. with gloves), the resistive touch is the right choice. You can choose from a variety of different processors, from the energy-efficient Intel® Celeron® J4125 to a 10th generation Intel® Core™ i7. Integrate up to 64 GB of RAM to meet the most demanding requirements. The front panels are absolutely flush with the die-cast aluminum housing. The housing is IP65 rated. The unique fanless thermal design of the die-cast aluminum housing enables effective temperature control.

### Product details

|                    |                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:      | Hollow connector 5.5 x 2.5 mm: 12 VDC to 36 VDC<br>2 pin connector: 12 VDC to 36 VDC                                                        |
| Power consumption: | Standby: 21,31 W<br>Full load at base clock: 30,66 W                                                                                        |
| Display:           | 17.3" TFT LCD                                                                                                                               |
| Resolution:        | 1920 x 1080 pixels                                                                                                                          |
| Aspect ratio:      | 16:9                                                                                                                                        |
| Brightness:        | 300 cd/m <sup>2</sup><br>1000 cd/m <sup>2</sup> (High Brightness)                                                                           |
| Colors:            | 16,7 M                                                                                                                                      |
| Reading angle:     | 80/80/60/80 (L/R/U/D)                                                                                                                       |
| Touch screen:      | <ul style="list-style-type: none"> <li>• Projected capacitive touch</li> <li>• Resistive touch</li> <li>• without touch</li> </ul>          |
| Glass hardness:    | <ul style="list-style-type: none"> <li>• 6H Projected capacitive touch</li> <li>• 3H Resistive touch</li> <li>• 7H without touch</li> </ul> |
| Processor:         | Intel® Celeron® J6412 (2.60 GHz)                                                                                                            |
| RAM:               | Max. 16 GB DDR4                                                                                                                             |
| SSD/HDD:           | Max. 1 TB<br>Standard: mSATA<br>Optional: M.2 NVMe                                                                                          |

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interfaces:            | USB: 2 x USB 3.0 type A, 2 x USB 2.0 type A<br>Serial DB-9: 1x RS-232<br>12-pin screw terminal: 1x RS-485, 1x RS-232, 5x GPIO<br>Ethernet: 2x RJ-45 Gigabit Ethernet, galvanically isolated<br>Display: 1x HDMI, 1x VGA<br>Audio: 1x audio in/out, 3.5 mm jack<br>Sim Card Slot: Standard SIM (without function as standard)<br>WLAN: 1x 802.11 abgn/ac/d/e/i/h/w<br>Bluetooth: 1x Bluetooth 4.0 |
| Expansion slots:       | None                                                                                                                                                                                                                                                                                                                                                                                             |
| Housing:               | Die-cast aluminum housing                                                                                                                                                                                                                                                                                                                                                                        |
| Assembly:              | VESA 75 x 75, VESA 100 x 100<br>Panel mounting                                                                                                                                                                                                                                                                                                                                                   |
| Protection class:      | IP65 on the front                                                                                                                                                                                                                                                                                                                                                                                |
| Dimensions (WxHxD):    | 458 mm x 291 mm x 67 mm                                                                                                                                                                                                                                                                                                                                                                          |
| Weight:                | approx. 4.5 kg                                                                                                                                                                                                                                                                                                                                                                                   |
| Certifications:        | CE, RoHS, FCC, REACH                                                                                                                                                                                                                                                                                                                                                                             |
| Ambient conditions:    | Operation: -10 °C to +60 °C,<br>Optional WT: -20 °C to +70 °C<br>High Brightness: 0 °C to +70 °C<br>Storage: -20 °C to +70 °C<br>Up to 95 % r. h., non-condensing                                                                                                                                                                                                                                |
| Operating systems:     | Windows® 10 IoT LTSC<br>Windows® 11 IoT LTSC                                                                                                                                                                                                                                                                                                                                                     |
| Options:               | LTE<br>-20 °C to +70 °C (optionally customizable)                                                                                                                                                                                                                                                                                                                                                |
| Scope of delivery:     | 1 x device<br>1 x mounting material                                                                                                                                                                                                                                                                                                                                                              |
| Customs tariff number: | 8471 41 00                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer:          | Wachendorff Prozesstechnik GmbH & Co. KG                                                                                                                                                                                                                                                                                                                                                         |

### Products Order no.

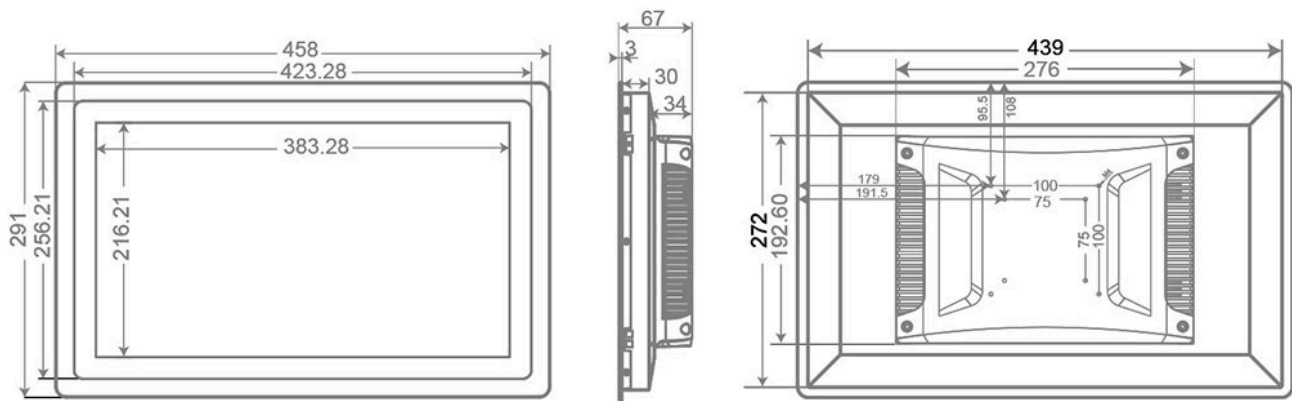
|             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| PPC002-173A | 17.3 inch Industrial Panel PC<br>Series-1A, aluminium housing, Intel Celeron |
|-------------|------------------------------------------------------------------------------|

### Accessories Order no.

|                          |                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PPC-PWRCRD_01            | Mains cable / connection cable E+F<br>CEE 7/7 to C13 1.5 m                                                                             |
| PPC-PWRADAP_01_24VDC2.5A | External power supply unit for Celeron<br>und Intel Core 6./7. Gen. Panel-PC,<br>230VAC to 24VDC with hollow<br>connector and C14 plug |
| PPC-WALL-VESA-01         | VESA wall mount metal, 75 x 75, 100<br>x100, black, including screw<br>accessory pack                                                  |
| ETHSWG5C                 | 5-way Ethernet switch, Gigabit,<br>unmanaged                                                                                           |
| ETHSWG8C1                | 8-port Ethernet switch, Gigabit,<br>unmanaged                                                                                          |
| KABETH10                 | Patch cable, RJ45 UTP CCA, CAT5e<br>white, 0.3 m                                                                                       |
| KABETH11                 | Patch cable, RJ45 UTP CCA, CAT5e<br>white, 1 m                                                                                         |
| KABETH12                 | Patch cable, RJ45 UTP CCA, CAT5e<br>white, 2 m                                                                                         |
| PPC-Stand_01             | Industrial monitor/display stand, VESA<br>100x100, black                                                                               |
| PPC-Stand_02             | Industrial monitor/display stand, VESA<br>100x100, silver                                                                              |
| WLANANT20                | Magnetic base antenna with SMA-R<br>connector<br>2.4 GHz@2 dBi with 1.8 m cable                                                        |
| WLANANT22                | Antenna with screw mounting and<br>SMA-R connector<br>2.4 GHz@2 dBi, 2 m cable                                                         |
| WLANANT55                | Magnetic base antenna with RP-SMA<br>connector<br>2.4 GHz@5 dBi with 1.8 m cable                                                       |

**Drawings**

**Dimensions (mm) and STL file/viewer:**





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