

## 15.6" Industrial Touch Panel PC with 10th Gen Intel® Core™ i Processor

### Overview

The DPC-8156 is a fanless 15.6" industrial panel PC that supports 10th generation Intel® Core™ i5/i7 processors for high-performance computing. It features a modular design to allow easy CPU board or I/O board upgrades and ensures a stable system structure and reliable industrial performance. With a choice of 4:3 and 16:9 aspect ratios and optional resistive or capacitive touchscreen, the DPC-8156 provides display versatility. The aluminum alloy IP65-rated front panel, metal body, and excellent heat dissipation offer longevity, functionality, and rust resistance for industrial applications.

### Features

- 15.6" LED-backlit LCD with capacitive or resistive touch screen
- Rugged aluminum enclosure and fanless design
- 10th Gen Intel® Core™ i5/i7 processor
- 3 x COM, 4 x USB, 4 x LAN, 1 x HDMI
- Supports VESA 100 mount and panel mount
- IP65 compliant front panel



Operating Temp.



Fanless



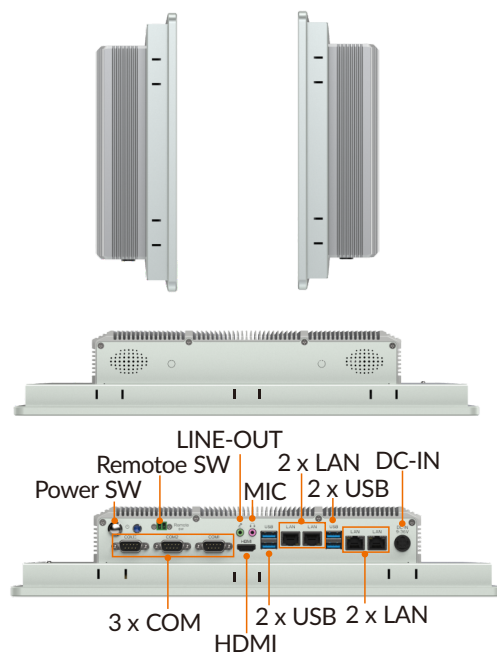
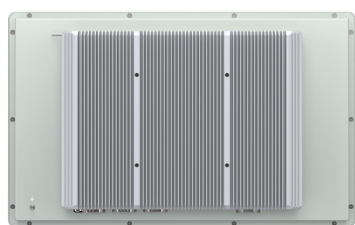
IP65



Touch Display



### I/O Interfaces



## Specifications

|                        |                                                                             |                                                                  |
|------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|
| Display                |                                                                             |                                                                  |
| Size                   | 15.6 inch                                                                   |                                                                  |
| Touch Type             | 5-wire resistive touch<br>projected capacitive multi touch (optional)       |                                                                  |
| Transmittance          | 87% (capacitive) / 80% (resistive)                                          |                                                                  |
| Control Interface      | USB                                                                         |                                                                  |
| Surface Hardness       | ≥7H/≥3H                                                                     |                                                                  |
| Resolution             | 1920 x 1080                                                                 |                                                                  |
| Luminance              | 450 nits                                                                    |                                                                  |
| Contrast Ratio         | 1000: 1                                                                     |                                                                  |
| View Angles            | 85 (left), 85 (right), 85 (up), 85 (down)                                   |                                                                  |
| LED Lifetime           | 50,000 hrs                                                                  |                                                                  |
| Color                  | 16.7M                                                                       |                                                                  |
| System                 |                                                                             |                                                                  |
| CPU                    | Intel®Core™ i5-10210U(1.6 GHz) quad-core eight-thread processor             | Intel Core™ i7-10710U (1.1 GHz) Six Core Twelve Thread Processor |
| Memory                 | 2 x DDR4 2666 SO-DIMM (up to 64GB)                                          | 2 x DDR4 2666 SO-DIMM (up to 64GB)                               |
| Storage                | 1 x 2.5" SATA HDD/SSD (optional)<br>1 x full length Mini PCIe for mSATA SSD |                                                                  |
| I/O Ports              |                                                                             |                                                                  |
| USB                    | 4 x USB 3.0                                                                 |                                                                  |
| Serial                 | 3 x COM (COM1 supports RS-232, COM2 and COM3 support RS-232/422/485)        |                                                                  |
| Ethernet               | 4 x GbE LAN                                                                 |                                                                  |
| Display                | 1 x HDMI                                                                    |                                                                  |
| Antenna                | 2 x SMA antenna holes                                                       |                                                                  |
| Expansion Slot         |                                                                             |                                                                  |
| Mini PCIe              | 1 x full length Mini PCIe for Wi-Fi<br>1 x full length Mini PCIe for mSATA  |                                                                  |
| RF Communication       |                                                                             |                                                                  |
| Wi-Fi                  | Mini PCIe expansion (optional)                                              |                                                                  |
| Cellular               | Mini PCIe expansion (optional)                                              |                                                                  |
| Bluetooth              | Mini PCIe expansion (optional)                                              |                                                                  |
| Audio                  |                                                                             |                                                                  |
| Audio                  | Mic in, line out                                                            |                                                                  |
| Speaker                | 2Ω5W speaker                                                                |                                                                  |
| Power                  |                                                                             |                                                                  |
| Button                 | Yes                                                                         |                                                                  |
| Remote Power On/Off    | 1 x Remote switch connector                                                 |                                                                  |
| DC Input               | 9 to 36VDC                                                                  |                                                                  |
| Power Connector        | M12                                                                         |                                                                  |
| Power Consumption      | 27W                                                                         | 29W                                                              |
| Ignition On/Off        | 1 x AC loss                                                                 |                                                                  |
| Power Adaptor          | AC-DC, 12V@7.5A, 90W                                                        |                                                                  |
| Operating System       |                                                                             |                                                                  |
| Windows                | Windows 10, Windows 11                                                      |                                                                  |
| Mechanical             |                                                                             |                                                                  |
| Dimensions (W x D x H) | 399 x 249 x 73 mm (15.7 x 9.8 x 2.9 inches)                                 |                                                                  |
| Weight (N.W.)          | 5.1 kg (11.2 lbs)                                                           |                                                                  |
| Mounting               | Panel mount, wall mount bracket VESA 100                                    |                                                                  |
| Material               | Aluminum alloy panel, all-metal chassis                                     |                                                                  |

| Environment           |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Operating Temperature | -10 to 50°C (14 to 122°F)                                                                   |
| Storage Temperature   | -20 to 60°C (-4 to 140°F)                                                                   |
| Relative Humidity     | 10% to 95% @ 40°C (104°F), non-condensing                                                   |
| Vibration             | 5-500Hz, 0.026 G <sup>2</sup> /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis                      |
| IP Rating             | IP65 compliant (for front panel)                                                            |
| Certification         |                                                                                             |
| EMC                   | CE, FCC                                                                                     |
| Packing List          |                                                                                             |
| Packing               | 1 x DPC-8156<br>1 x AC-DC power adapter<br>10 x panel mounting buckles<br>1 x warranty card |

## Dimensions

