

# AcuPanel 15,17,19

15",17",19" TFT SXGA 4:3 Flush Panel PC with Intel® Cedar Trail Dual Core 2550, 1.86GHz, Touch Screen, 1GB DDR3, 4x USB, 4x COM and VGA



## Main Features

4:3 15", 17", 19" Fanless LED Panel Computer  
 Intel® Cedar Trail Dual Core D2550, Dual Core, Low Consumption CPU  
 Flush Panel by 5-wire Touch Screen  
 Dual GbE/ 2nd display-VGA/ Line-in/ Line-out/ MIC-in/ PS2 KB/MS  
 USB x4/ 2x Mini-PCIe sockets/ 1x CFast/ 2x RS232/422/485

Optional 3.5G/ Wi-Fi Module / 2.5"HDD /2 x COMs /GPIO /DIO  
 DDR3 1GB/ 2.5" HDD Bracket  
 IP65 Compliant Front Panel  
 Mounting Support: Panel/ Wall/ Stand/ VESA 100mm x100mm  
 Wide Range Power Input 12V~ 30V DC

## Product Overview

15", 17", 19" fanless panel PC, AcuPanel incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1280x1024 (SXGA) resolutions. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

The AcuPanel supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two Mini-PCIe slots and one SIM card holder. With support for wide power input of 12V~30V, AcuPanel can gain a strong foothold in industrial field and machine devices. In addition, AcuPanel can hook 2nd display via a VGA port for dual independent display.

## Specifications

### Panel

LED Size: 15", 17", 19" 4:3  
 Resolution: SXGA 1280x1024  
 Luminance: 380cd/m<sup>2</sup>  
 Contrast ratio: 1000  
 LCD color: 16.7M  
 Viewing Angle: 80(U), 80(D), 85(L), 85(R)

### Touch Screen

5-wire resistive (flush panel type)  
 Light transmission: 81%  
 Interface: USB

### System

CPU: On-board Intel® Cedar Trail Dual Core processor D2550, 1.86GHz, 1M L2 Cache  
 BIOS: AMI BIOS  
 System chipset: Intel® NM10 Express chipset  
 System memory: 2x 204-pin DDR3 SO-DIMM socket, 1G DDR3 (Default),  
 Support up to 4GB DDR3-800/1066, Non-ECC and Un-buffered

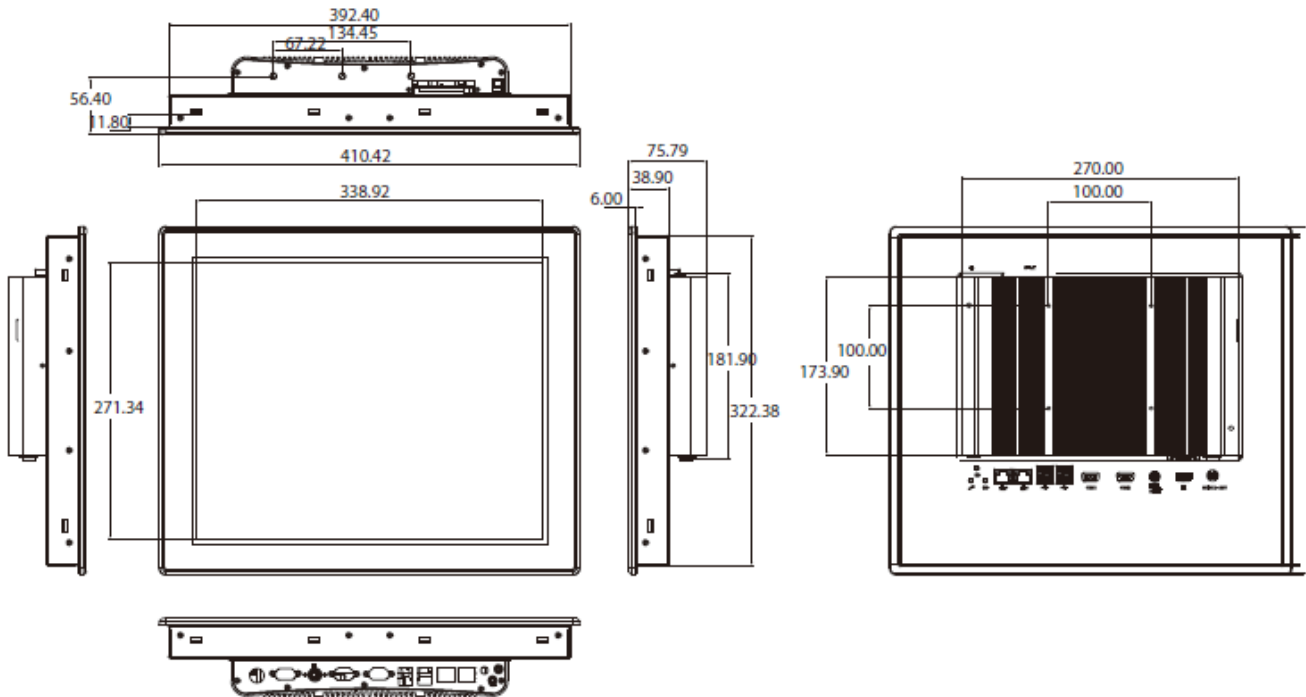
### Storage Device:

1x external locked CFAST socket  
 1x hard drive bay: optional 1x 2.5" SATA HDD or 1x SATA DOM  
 Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)  
 H/W status monitor: Monitoring system temperature, and voltage  
 Expansion: 2x Mini-PCIe sockets (support optional Wi-Fi or 3.5G module)  
 Panel backlight control button: Increase brightness / decrease brightness / Backlight On/Off

### Rear I/O

Ethernet: 2x RJ45  
 2nd display VGA port: 1x DB15  
 Audio port: 1x Line out; 1x Line in; 1x MIC-in  
 USB: 4x USB 2.0  
 PS2 keyboard/ mouse  
 Power switch  
 Reset button

## Dimension Drawing (eg.AcuPanel17)



DIO w/ 2.5kv isolated:  
 4x Digital Input (Source type)  
 - Input Voltage (Dry Contact): Logic 0: Close to GND  
 - Logic 1: Open  
 - Input Voltage: Logic 0: 3V max  
 - Logic 1: +5V ~ +30V  
 4x Digital Output (Sink type)  
 - Output Voltage: 3.6V~5V  
 - Sink current: 200 mA max. per channel  
 GPIO: 2x digital in/ 2x digital out  
 COM #1: RS232/422/485 w/ 2.5kv isolated  
 COM #2: RS232/422/485 w/ 2.5kv isolated  
 COM #3: RS232 w/ RI or 5V selection  
 COM #4: RS232 w/ RI or 12V selection

### Audio

AC97 codec: Realtek ALC886-GR  
 Audio interface: Line out/ Line in/ MIC-in Audio Jack

### Ethernet

LAN chip: dual Intel® 82574L Gigabit LAN  
 Ethernet interface: 10/100/1000 Based-T x Ethernet compatible

### Mechanical & Environment

Color: pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane  
 IP protection: IP65 front  
 Mounting: panel/ wall/ stand/ VESA 100mm x 100mm  
 Power input: 12V~30VDC  
 Power adapter: Optional AC to DC power adaptor (+12V, 60W)

### Vibration:

- IEC 68 2-64 (w/ HDD)  
 - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD Operating)  
 - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast Operating)  
 - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)

### Shock:

- IEC 68 2-27  
 - HDD: 20G@wall mount, half sine, 11ms

Operating temperature: -5°C to 50°C

Storage temperature: -20°C to 75°C

Operating humidity: 10%~90% relative humidity, non-condensing  
 Limits to be at 90% RH at max 50°C

**Dimension:** 352.8 X 303.3 X 56 mm (AucPanel15)  
 410.4 x 340.4 x 75.9 mm (AcuPanel17)  
 457.6 x 379.2 x 61.3 mm (AucPanel19)

**Weight:** 5~6.6 Kg

### Certifications

CE approval  
 FCC Class A

## Support Information

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