

TAICENN ODM Customized Product Introduction

Project Name:

Industrial Panel PC for MES (Manufacturing execution System) applications

Customer ID: C159 (China)

Project Introduction and request:

This project is for MES manufacturing management control system. MES manufacturing management control system utilize industrial Ethernet, ProfiBus, embedded panel IPC, RFID, Barcode recognition technologies, to fulfill the data acquisition and control of all processing equipment. Data published and communicated by the embedded panel IPC, which is installed in each working station, for all production process control and management. Then the company can real-time monitor and requirement trace of the manufacturing execution process.

Project consult and discussion:

After several round negotiation and discussion with our clients, TAICENN decided to ODM design a new solution to this project. The machine must be simply mounted in different environment, based in SAP system and network; Panel IPC must have a good box construction, Fan-less designed, water-proof and dust-proof, good shock & vibration performance; Machine have rich interfaces, to fulfill real-time monitoring; Data communicates well and reliably.

Customized solution Specs:

- 1- 15" TFT LCD, Resolution: 1024 x 768
- 2- LED with 50 000 hours, Brightness: 400 cd/sqm
- 3- 10 points Projective Capacitive touch screen, long durability and good stability
- 4- Intel Bay Trail J1900 quad-core processor, 2.0 Ghz, 4GB DDR3 Memory, 32GB MLC SSD
- 5- Expansion with internal speaker, Wi-Fi or 3G/4G
- 6- Fan-less designed and VESA mounting; Front Panel IP65 rating protection;

[TAICENN Mode: TPC-C315-159](#)

Customer application machines for reference.



TAICENN Special Designed Product:



Key Features:

- 15 " TFT LCD , Resolution: 1024*768
- LED with 50 000 hours , Brightness: 400cd/m²
- Multi-point Projective capacitive touch(10 points)
- Intel Bay Trail J1900 quad-core processor, 2.0 GHz.
- Expansion with internal speaker, Wi-Fi or 3G/4G
- Front panel fulfill IP65 rating, support VESA



Specification

System	
Processor	On-board Intel Bay Trail J1900 quad-core processor, 2.0GHz
Memory	Support DDR3-1333/1600 MHz, 1 * SO-DIMM Slot, Up to 8GB
Storage	Support 2.5-inch and mSATA SSD or HDD
Display	Integrated Graphics, support VGA/HDMI output
LAN	1x RTL8111E10/100/1000 Mbps RJ45 port
Wireless	1x Mini-PCIe slot, can expansion to 3G/4G, Wi-Fi
Audio	Realtek ALC662 controller, 1x Line-out, 1x MIC
Speaker	Built-in small speaker 2x 5w (Optional)
USB	4x USB (3x USB 2.0 and 1x USB 3.0)
COM	2X RS232
Watchdog	Programmable from 1 to 255 seconds
I/O	VGA/HDMI/GLAN/4x USB/2x COM/Line-out/MIC/2x RS232/DC IN

Structure and Power

Panel	Aluminum-magnesium alloy front panel, high-strength sheet metal structure
Mounting	VESA 100 x 100 mm, Front panel meet IP65 protection rating
Power input	DC 12V
Case size	360 x 284x 50mm (W x H x D)
Weight	5kg

LCD

Size/ Type	15" TFT LCD
Resolution	1024 x 768
Display colors	16.7M
Display area	304.1 x 228.1 mm
Response time	30 ms (Typ)
Backlit	LED
Backlit MTBF	50 000 hours
Brightness	400 cd/sqm
Contrast ratio	800:1
Pixel pitch	0.297(H) x 0.297 (V)
Viewing angle	(H) 160/ (V) 160

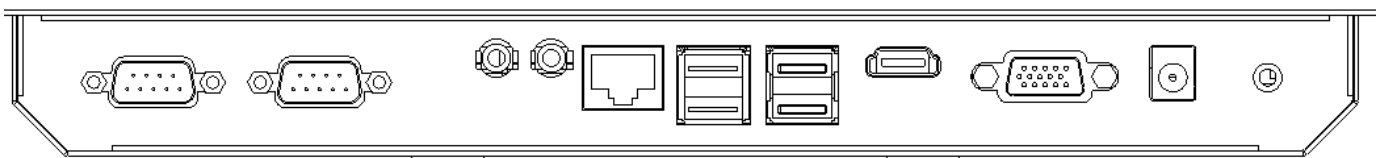
Touch

Size/Type	15-inch projective capacitive
Touch points	10 points
C/L visual area	305.1mm x 229.1 mm
Response time	<5ms
Touch mode	Finger or Cap. stylus
Linearity	X \leq 2.5% ; Y \leq 2.5%
Operating Force	\leq 10g
Transparency	\geq 86%
Surface hardness	Glass surface hardness Mohs-7
Durability	Anti-scratch, up to 1000,000,000 times

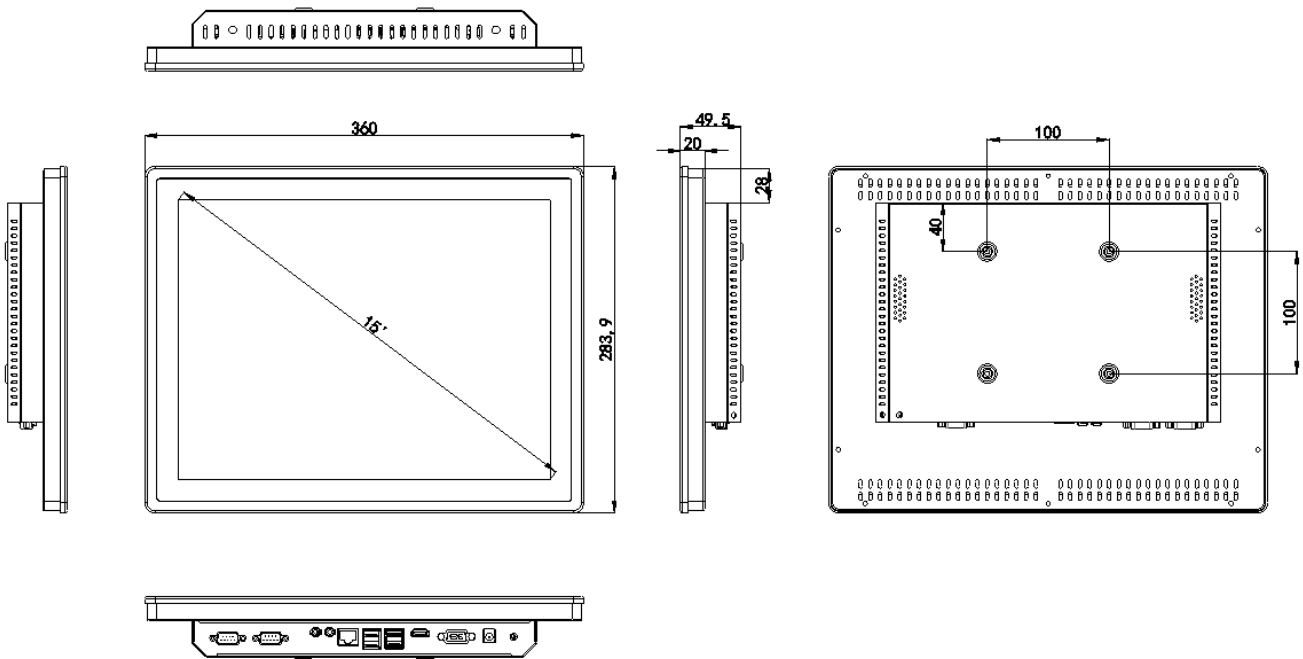
Environmental

Working temp.	-0°C~+50 °C
Storage temp.	-20°C~+70°C
Relative humidity	10~95%@10°C (No condenstaion)
Vibration	50~500Hz,1.5G,0.15mm peak to peak
Shock	10G/peak (11ms sec)

I/O Definition



Dimension



Ordering information:

TPC-C315-J-2G-SSD64G	15 " TFT LCD/Resolution 1024 x 768 /capacitive touch/J1900 2.0GHz quad-core /2G/ SSD 64G/VGA*1/RJ45*1/USB2.0*3/USB3.0*1/RS232*3/LINE-OUT/MIC/12V IN
TPC-C315-L-2G-SSD64	15 " TFT LCD/Resolution 1024 x 768 / capacitive touch/J1800 2.41GHz (dual-core) /2G/ SSD 64G/VGA*1/RJ45*1/USB2.0*3/USB3.0*1/RS232*3/LINE-OUT/MIC/12V IN
Expansion: TPC-C315-J(L)/W/G/S	Expansion: W(Wi-Fi), G(3G/4G), S (speaker)
Power Adapter	AC 220V to 12 power adapter, 12V/5A