TPC-DC080C1E

8.0-inch Intel Celeron J1900 P-CAP touch VESA mounting **In-vehicle** Panel PC

Specification

Version 2.2

Key features:

- 8.0-inch Projective capacitive multi-point touch;
- Multi 10 points Projective capacitive touch (PCT or Pcap.) screen;
- Intel Baytrail Celeron quad-core 2.0Ghz J1900 processor;
- Impact, fan-less design, Finned heat sink;
- IO: 2* Intel GLAN, 4*USB, 4* RS232, 1* RS422, 1*HDMI;
- Wide voltage DC 9~36v power input;
- Built-in GPS module, and All network 3G/4G module;
- Wide-temp range, support -20℃~+70 ℃;

Product Image

Brief Introduction

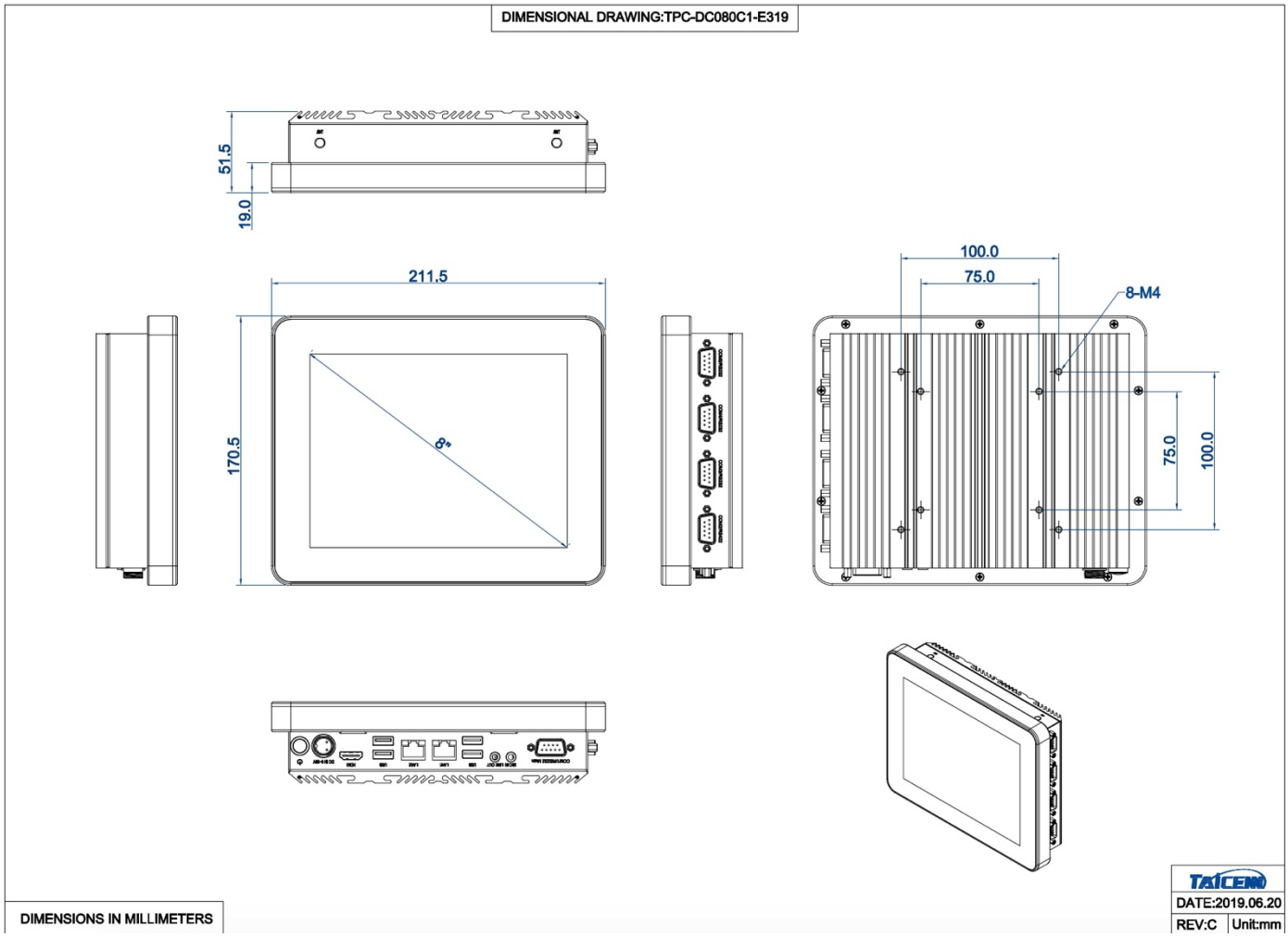
TAICENN TPC-DC080C1E model is a **customized** low power-consumption, Fan-less designed, rich I/O interface, enhanced stability and reliability industrial 8.0-inch Touch Panel PC product, specially designed for **In-vehicle** applications. It adapts Intel Baytrail Celeron J1900 processor. TPC-DC080C1E series storage can support one mSATA interface, HDD or SSD. The design uses a multi-point (10- points) projective capacitive touch screen, and it can fulfill front panel NEMA/IP65 dust-proof and water-proof standards.
The TPC-DC080C1E uses full-sealed box construction, and it can prevent dust from entering the device system. In such a small limited dimension, TPC-DC080C1E model is designed with 2*Intel GLAN, 4*USB (1*USB3.0), 5*COM (1*RS422), the device is also built with 3G/4G/LTE and GPS modules.
The **TAICENN** TPC-DC080C1E is compatible with Win7, Win8, Win10, Linux, Unix OS, and it also has a good compatibility with customized applications and software programs.

Technical Data

Model Item	TPC-DC080C1E
System	
BIOS	SPI AMI EFI BIOS
CPU	Intel Baytrail J1900
CPU Ghz	Quad-core 2.0Ghz
Memory	SO-DIMM, DDR3L, Max. up to 8GB
Network	2*Intel I211AT, expansion with Wi-Fi/3G/4G
Storage	1x mSATA
Audio	Realtek ACL 282 controller
Watch dog	Programmable 1~255 seconds
Operating System	Win7, Win8, Windows embedded, Win 10, Linux, Unix
I/O	
Network	2x RJ45, 10/100/1000 Mbps
USB	3x USB 2.0 + 1x USB 3.0
COM	4x RS232 (Surge and electrostatic protection) 1x RS422
Audio	Line-In, Line-Out
Display	1*HDMI
LCD	
Size/Type	8.0'' TFT LCD
Resolution	800 * 600 (XGA)
Brightness	400 (cd/m^2)
Brightness MTBF	WLED, 30 000 hours

Display area	162 x 121.5
Viewing angle	80/80/80/80 (Typ.)
TOUCH	
Type	Projective capacitive (P-cap.)
Interface	USB
Transparency	>90±3%
Touch points	10 Points
Durability	>100 000 000 times
Surface hardness	Mohs 6H
Operating force	≤10g
Special treatment	Anti-finger treatment (AF)
Structure	
Front Panel	Magnesium-aluminum alloy, Anodizing treatment
Back Panel	SGCC Galvanized plate sheet, Sand-blasting, Metal color
Cooling System	Finned aluminum heatsinks, fan-less design
IP rating	IP65 front panel
Mounting	VESA 75/100
Hole dimension	253 x 195 (mm)
Product Dimension	211.5 x 170.5 x 51.5 (mm)
Net weight	2.6 KG
Power and Environmental	
Voltage Input	DC 9~36 V (Over-current, Over-voltage and reverse polarity protection)
Power Consumption	About 20 W
Working temperature	-20℃~+70 ℃
Storage temperature	-30℃~+80 ℃
Relative humidity	10~95%@10℃ (No condensation)
Vibration	50~500Hz,1.5G,0.15mm peak to peak
Shock	10G/peak (11ms sec)

Dimension


DIMENSIONAL DRAWING:TPC-DC080C1-E319
51.5
19.0
211.5
170.5
8"
100.0
75.0
8-M4
75.0
100.0
DIMENSIONS IN MILLIMETERS
DATE:2019.06.20
REV:C
Unit:mm

Ordering Information

TPC-DC080C1E	8.0'', 800*600, Intel Baytrail J1900, 1*USB3.0+3*USB2.0, 5*COM (1*RS422), **PCAP** touch, 2*GLAN, DC 9~36V, Power Adapter
Memory	SO-DDR3L 2G/4G/8G
Storage	SSD: 32GB/64GB/128GB/256GB/512GB/1TB
Wireless module	WIFI: 802.11 b/g/n Mini PCIe 3G/4G/LTE: All network module
GPS module	G-mouse VK-162

TAICENN Technology

***TAICENN**, is a leading global **solution provider** of Embedded Box IPC, Touch panel IPC and industrial monitor, which are designed specifically for systems and applications that require excellent performance, high-level reliability and stability, long supply period and supports.*