Android Panel PC

PC1090

Extreme reliability for industrial and in-vehicle control.



OS
Android 16

Performance
Octa-Core Processor

Wireless
WiFi,Bluetooth

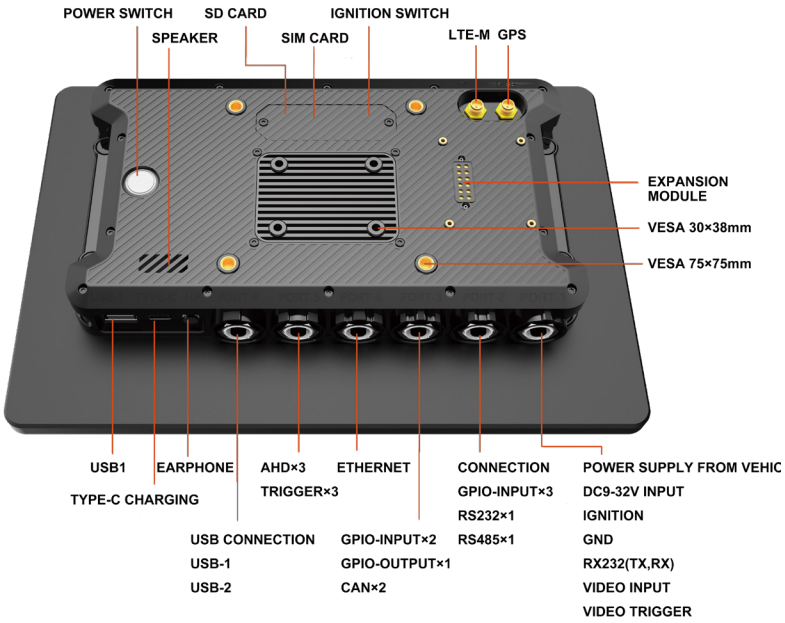
Power
Supercapacitor (TBD)

Operating Temp
-20℃ to 60℃

Camera
40MP Autofocus with flash (not by default)

Display
10" IPS (1920×1200)

Reliability
IP67



Network

2G / 3G / 4G with voice and VoLTE;
Proven reliable network connection

Extended Features

Supports barcode scanner, RS232 module, RFID LF reader, barometric altimeter and LoRa module

MDM Remote Control Server

Topicon's device management server is developed to allow customer to update different firmware and make kiosk mode

RS232 × 2 **USB** × 2
RS485 × 1 **CAN bus** × 2
GPIO × 6 **Ethernet** × 1
Video input (Support 4 AHD or analog camera)

MDM server function:

- BOOT ANIMATION
- ADD APN
- INSTALL APK
- DEFAULT SETTING
- CUSTOMIZED BUTTON

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Specification

PERFORMANCE CHARACTERISTICS	
CPU	2.2GHz Octa Core Processor
OS	Android 16 with nGMS,Non-GMS
Memory	4GB LPDDR5X
	128GB UFS2.2
PHYSICAL CHARACTERISTICS	
Dimensions	245mm L x 163mm W x 38mm D
Weight	1140g
Display	10inch,IPS panel(1920 x 1200 pixel)
Touch Panel	Anti-glare capacitive multi-touch panel/Glove,Wet
Backlight	LED Backlight
Power	Supercapacitor (TBD)
Expansion Slot	User accessible micro SD card slot
	(standard supports up to 512GB)
SIM	2 x Nano-SIM，eSIM
Interface	1 x USB-C 3.0 Charging
	1 x USB-A 2.0 OTG
	1 x 3.5mm Audio Headphone Jack
	2 x SMA Female socket (GPS and LTE Antenna)
	6 x M9 8-Pin Waterproof Aviation Connectors:
	PORT-1: Vehicle VCC DC 9–48V Input, Ignition, GND,
	AHD Video Input, Camera Trigger, 1 x RS232
	PORT-2: 1 x RS232, 1 x RS485, 3 x GPIO Input
	PORT-3: 2 x USB 2.0 OTG
	PORT-4: 3 x AHD Video Input, 3 x Camera Trigger
	PORT-5: 1 x LAN (100 Mbps Ethernet)
	PORT-6: 2 x CAN Bus, 2 x GPIO Input, 1 x GPIO Output
Notification	Audible tone
Voice / Audio	Speaker, Microphone, headphone
Keypad	On-screen keypad
WIRELESS WAN DATA AND VOICE COMMUNICATION	
Radio Frequency	GSM:B2/B3/B5/B8
	WCDMA:B1/B2/B4/B5/B8
	LTE-TDD:B38/B40/B41
	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/ B19/B20/B25/B26/B28/B66
GNSS	GPS, GLONASS, GALILEO (Dual-band L1+L5)
External antenna	SMA GPS antenna, SMA LTE-M antenna
WIRELESS LAN	
Radio	Wireless Standards:
	Wi-Fi 6 (802.11ax), 802.11ac wave 2, 802.11a/b/g/n.
	Antenna Array:
	Dual-Band Simultaneous (DBS) 2x2 MIMO configuration.

WIRELESS PAN	
Bluetooth	V5.2
WIRED LAN	
Ethernet	Support
DATA CAPTURE	
Camera (Not by default)	Front camera 8MP (optional) Rear camera 40MP (optional)
NFC	ISO/IEC 14443 Type A
	ISO/IEC 14443 Type B
	ISO/IEC 15693
	ISO/IEC 18092
Serial Communication	2 x RS232
	1 x RS485
SENSOR	
Light Sensor	Ambient Light
Motion Sensor	Accelerometer, E-Compass, Gyroscope
USER ENVIRONMENT	
Operating Temp	-20℃ to 60℃ / -4°F to 140°F
Storage Temp	-20℃ to 70℃ / -4°F to 158°F
Humidity	90% non-condensing
Sealing	IP67
Electrostatic Discharge (ESD)	+/-8kVdc air discharge +/-4kVdc direct discharge +/-4kVdc indirect discharge

OPTIONAL ACCESSORIES

EXPANSION MODULE
VESA Mount (30 x 38mm)
VESA Mount (75 x 75mm)

* Specification is subject to change.

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