



TC605

Mobile Computer

Maximum Flexibility and Device Longevity



CPU

QCM4490



Display

6" FHD



Scan Angle

0° / 60°



Scan Engine

Short Range /
Long Range



Sealing Standard

IP65 & IP68



Drop Test

1.8 m



WWAN

5G



Wi-Fi

Wi-Fi 6E

The TC605 mobile computer expands upon the proven success of the TC601, introducing the newest CPU platform and enhanced powerful features to deliver the ultimate user experience, guaranteed security, device longevity, and highest flexibility. TC605 is a full-touch mobile computer designed and developed with the new generation of Qualcomm® 5G / Wi-Fi 6E CPU platform; the exterior design followed the previous generation TC601, focusing on both rugged and beautiful outlooks. New design elements were also integrated to allow the host to support two scan angle options; 0-degree or 60-degree angle scanner heads can be selected according to the requirements of the users' terminal device, and information can be easily read on the screen while scanning. In addition, the pogo pin design on the rear cover and bottom of the terminal provides diverse expansion functions, making TC605 more suitable to correspond to various needs. The compact size of the new generation TC605 also makes it more suitable for controlling with a single hand, bringing a whole new usage experience for users.

Excellent Efficiency, Further Upgraded

The performance of TC605 is further upgraded; with the inclusion of the Qualcomm® QCM4490 industrial CPU and 6GB/128GB large capacity memory; it also supports Wi-Fi 6E and the upgraded Bluetooth 5.2 technology, significantly increasing transmission speeds and reducing latency, providing users with more stable and secure data transmission experiences, and optimizing your operation processes.

Flexible Scanning, Dual Angle Selection

Quick and accurate scan modes are provided to read different types of barcodes easily; it is suitable for workplaces with the need for different types of product barcodes. The scanner is also equipped with 0-degree and 60-degree inclination angle configurations, allowing customers to flexibly choose the suitable scanner angle head as needed, and creating outstanding usage experiences for various application scenarios.



0-degree

60-degree

Unparalleled Visual Enjoyment

TC605 features a 6" FHD 18:9 screen, offering a wide field of view that makes multitasking a breeze, enhancing work efficiency. In addition, the screen's outdoor visibility exceeds 600 nits to help users comfortably use the device outdoors for tasks like viewing documents and recording data, without being affected by sunlight.

The Brand New Multi-Slot Cradle

iMozen's new multi-slot cradle allows users to choose a flexible combination of charging cradles. A main charging cradle, single-slot battery charging cradle, and 4-slot battery charging cradle can be combined to provide users with a most suitable combination.

For example, the main charging cradle can be extended to accommodate up to five units, and a 4-slot charging cradle can be combined with four main charging cradles. It is also possible to combine a single charging cradle and a single-slot battery charging cradle. Such flexibility allows a much more convenient user experience. In addition, the charging cradle can still be used after slot replacement. This versatility promotes continuity, commonality, and environmental sustainability and will help customers reduce product procurement costs.



Extremely Robust, Upgraded Protection

TC605 features an unexpectedly lightweight and robust design, with IP65 & IP68 ratings and 1.8m drop resistance. It stands as the optimal choice, balancing lightweight portability and sturdy performance.

Diverse Fields, Scanner Replacement

TC605 is used with powerful top-brand scanner heads, and multi types of high-precision scanners are provided to meet the needs of different fields. These two scanners can both be quickly equipped, and the accurate targeting modes can read different types of barcodes easily to ensure that you can scan different types of barcodes efficiently in various fields.

Upgraded Battery Capacity, Powerful Endurance

TC605 has a 5000mAh large-capacity battery, and SWAP for battery replacement is supported as well as fast charging with USB PD and QC3 functionality. Uninterrupted and reliable performance is assured and you can do your regular work with peace of mind.

Excellent Panel Coating for Unhindered Touch Operation

Special screen treatment technology is used to respond to environments with water stains and oil stains; it also supports glove mode operations to ensure your touch controls run smoothly. No matter how harsh the working environment is, you can easily perform operations, improving work efficiency.

Built-in SmartPA (Power Amplifier)

TC605 is equipped with SmartPA (Power Amplifier) that provides highly efficient and high-quality signals, and automatic adjustment functions; it allows users to hear audio clearly in places with noisy ambient sounds to ensure the stability of communications.

Easy and Intuitive Operating System

TC605 adopted the Android operating system to provide quick and intuitive user interfaces; it is also equipped with the widely familiar GMS system to realize optimal work performances. The operating system is Android 14, and update plans are also provided; it will support versions 16 and 18 in the future, and is also compatible with AER and EMM to ensure you can achieve maximum work performance.

Model Continuity, Uninterrupted Operation

Upholding the principle of maintaining the same external appearance of the terminal while continuously upgrading its features, there is no need to worry about subsequent replacements with newer models, and seamless compatibility is ensured; upgrade and continue operation smoothly. This strategy not only helps reduce transition costs and improves efficiency but also ensures the smooth and continuous operation of your business.



0-degree

60-degree

I TC605 Specification

Update Date: 2025.10.27



Physical Characteristics

Dimensions	167.7 x 78.9 x 15.8 mm
Weight	280g (with standard battery)
Display and Panel	6", 18.9 IPS Full-HD (1080 x 2160) - Gorilla® Glass 7 600 nits 16.7M colors (RGB 888)
Expansion Slots	- Micro SD card slot x 1 (1TB / with SDHC compliance and software image upgrade features) - Nano SIM slot x 2 - USB 3.1 (Type-C) support USB OTG - Compliance with PD3.0 / QC3.0 / QC4.0 8 POGO Pin for extension + 2 POGO Pin for charging
Keys and Buttons	- Virtual key x 3 - Scan key x 2, Volume key x 2, Power key, Function key (programmable)
Indicators	Support RGB LED (Complied with SW)
Audio and Voice	- Speaker x 1 (95dB @ 10cm) - Receiver x 1, Dual noise-cancelling microphones x 1 - Support Type-C headsets - Support Smart PA

Performance Characteristics

Operating System	Android 14 with GMS (upgradeable to Android 18)
CPU	Qualcomm® QCM4490, 2.4GHz Octa Core
Memory	RAM 6 GB + ROM 128 GB
GMS Certification	GMS certified
Android Enterprise	AER certified

User Environment

Operating Temp.	-20~50°C
Storage Temp.	-40~60°C
Charging Temp.	0~45°C
Humidity	5%~95% (non-condensing)
Sealing	IP65 & IP68 Standard
Drop Spec.	1.8 meter drop
Tumble Spec.	0.5m tumbles for 500 cycles and 1000 drops
ESD	±8KV direct discharge, ±15KV air discharge

Network Connection

Wireless PAN	Bluetooth 5.2 - MAP 1.2 (Message Access Profile) - A2DP 1.2 (advanced audio distribution profile) SRC/SNK Mode - HSP 1.2 (Headset profile) - HFP 1.7 –AG/HS (Handsfree profile) - OPP 1.1/1.2 (Object Push Profile, client and server) - HID 1.0 (Human Interface Device: Keyboard/Mouse) - AVRCP 1.4 (Audio/Video Remote Control Profile) - PAN 1.0 (Personal Area Networking Profile PANU and NAP) - HDP 1.1 (Health Device Profile) - PBAP 1.2 PSE/PCE (Phone Book Access Profile) - DUN 1.0 (Dial-Up Network) - HOGP 1.0 (HID Over GATT Profile) - HAP (Hearing Aid Profile) - SAP (Sim Access Profile)
Wireless LAN	802.11a/b/g/n/d/h/i/k/r/ac/ax/v/mc 2.4GHz, 5GHz, 6GHz - Compliant with WEP, WPA and IEEE 802.11i WPA2, WPA3 - Fast Roaming

Wireless WAN

- 5G: FDD bands: n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n66
TDD bands: n38, n40, n41, n48, n77, n78, n79
- 4G: FDD bands: B1, B2(25), B3, B4(66), B5, B7, B8, B12, B17, B18, B19, B20, B26, B28
TDD bands: B38, B39, B40, B41, B42, B43, B48
- 3G: B1, B2, B4, B5, B6, B8, B19
- 2G: 850, 900, 1800, 1900
- Support DSDS (Dual SIM Dual Standby)

GPS

GPS, GLONASS, Beidou, Galileo, QZSS, SBAS (5G SKU)

Data Capture

Scanner

- Support 1D/2D
 - 1D: Coda bar, Code 11, Code 39, Code 128, GS1-128, ISBT 128, Code 32, Trioptic, Code 93, Industrial 2of5, GS1 DataBar-14, Interleaved 2of5, Matrix 2of5, MSI, UPC/EAN (extensions), Coupon Code, Chinese Postal, Korean Postal, Australian Postal, Japan Postal, KIX Code, UK Postal, US Planet, US POSTNET, UPU 4-State, USPS 4CB
 - 2D: Aztec, Data Matrix, Dot Code, HAN XIN, Maxi Code, MicroPDF417, Micro QR Code, PDF417, QR Code, Composite Codes, TLC-39
- Long range / Short range (*Selectable*)

Scan angle

0° / 60° (*Selectable*)

Camera

- Front camera: 8M pixel CMOS color camera
- Rear camera: 16M pixels CMOS color camera with auto focus
- LED flashlight

NFC

- Comply with
- ISO14443-4 (Type A, Type B), ISO15693
 - MIFARE, FeliCa (ISO/IEC18092)

Software

Software

- iMozen SEK™ (Software Extension Kit):
- EMM / MDM
 - Software updates
 - RDM
 - Other customized solution
 - OCR

Sensor

Sensor

Gyroscope, Light sensor, e-Compass, Proximity sensor, Accelerator sensor

Power

Battery

- Replaceable battery: 5000mAh
- Support battery swap (Suspend mode 30mins)

Power Adaptor

- 100~240Vac, 50/60Hz Input
- 9V/2A 18W output (Support QC3.0)
- (*Optional*) PPS (Programmable Power Supply)

Regulatory Compliance

Certifications

- CE, CB, FCC, NCC, BSMI(Wi-Fi), UKCA, TELEC, VCCI, JATE, BQB, RCM
- RoHS, REACH and WEEE

Accessories

Accessories

- Adapter
- USB Cable (Type-C)
- Screen Protector (*Optional*)
- Rugged Protective Boots (*Optional*)
- Hand Strap (*Optional*)
- Shoulder Strap (*Optional*)
- Spare Battery (*Optional*)
- Soft Holster (*Optional*)
- Pistol Grip (*Optional*)
- Multi-Slot Cradle (*Optional*)



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