TC605

6" Qualcomm® QCM4490 Rugged Handheld Computer

CE

FC

KEY FEATURES

- 6" 1080 x 2160 Panel with PCAP Touch
- Android 13
- Qualcomm® QCM4490, Octa-Core, up to 2.4GHz
- IP68 waterproof and dustproof
- Optional WWAN 4G and 5G
- Optional Barcode Reader (0° Scan Angle or 60° Scan Angle)

INTRODUCTION

The Winmate TC605 is a compact and ultra-rugged 6-inch handheld computer built on the Android platform for modern industrial and edge computing needs. Powered by the Qualcomm® QCM4490 Octa-Core processor, it delivers reliable performance for data visualization, real-time operations, and mobile tasks. Its updated design supports dual scan angles, allowing users to choose between 0-degree or 60-degree scanner heads for greater flexibility and ease of use when reading information on screen.

SPECIFICATIONS

Display

Bonding	Optical Bonding for Sunlight Viewability	Resolution	1080x2160
Size	6.0 inches	Panel Brightness	600.0 nits
Type	Projected Capacitive Multi Touch		

System Specification

Processor	Qualcomm® QCM4490, Octa-Core, up to 2.4GHz	Memory	6GB
Storage	128GB	Operating System	Android 13.0
WLAN	Support	BT	Support
WWAN	4G/5G (Optional)	GNSS	GPS/GLONASS
RFID	NFC (Read / Write, Peer to Peer mode)	Sensors	Ambient Light Sensor, E-Compass, Gyro, Acceleration Sensors, Proximity Sensor

Camera

Front Camera	8MP Camera	Rear Camera	16MP Camera with LED Auxiliary Light (Auto Focus)

Mechanical

Dimension	167.7 x 78.9 x 15.8 mm	Weight	280g

IO Ports

USB Port	1 x USB 3.1 Type C OTG (support charging)	SD Card Slot	1 x Micro SD Card Slot
SIM Card Slot	2 x Nano SIM Card Slot	Audio	2 x Built-in Mic 1 x Speaker 1 x Receiver
Indicator	1 x LED Indicator	Docking Connector	1 x Docking Connector

Environment

Operating Humidity	5% to 95% RH, Non-Condensing	Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 60°C	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP68
Drop	MIL-STD-810H Method 516.8, 6 ft		

Certification

Certification	CE. FCC, NCC, BSMI, TELEC, VCCI, JATE, BQB, RCM

Control

Button	1 x Volume +/-, 1 x Power Button, 2 x Barcode Button, 1 x Function Button

Power

Battery	3.7V 5000mAh Hotswappable Function (Optional)	Battery Operating Time	15Hr
Power Rating	9V	Adapter	PD adapter (Optional)

Security Function

SOTI MobiControl	SOTI MobiControl Compliance

Accessory

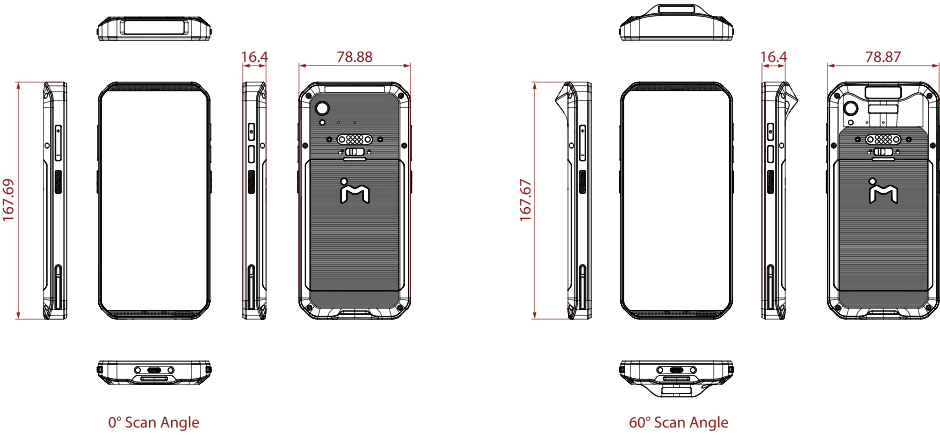|			
Accessory	Battery USB Type-C Cable	Optional Accessory	Universal Adapter Screen Prctector Rugged Protective Boots Hand Strap Shoulder Strap Soft Holster Pistol Grip Multi-Slot Cradle

Barcode Scanner

Barcode Scanner	1D/2D Barcode Reader Standard range(Default) / Long range(Optional) 60° (Default)/ 0° (Optional)

DIMENSIONS UNIT:MM

16.4 78.88

167.69

0° Scan Angle

16.4 78.87

167.67

60° Scan Angle

NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/ O, please contact the Winmate Sales Team for more information.