

TC605-EX

6" ATEX Rugged Handheld with Qualcomm® QCM4490



KEY FEATURES

- 6" 1080 x 2160 Panel with PCAP Touch
- Qualcomm® QCM4490, OctaCore, up to 2.4GHz
- IP65/68 waterproof and dustproof
- ATEX II Ex ic IIC T4 Gc and II 3D Ex ic IIIB T135°C Dc
- IECEx Ex ic IIC T4 Gc and Ex ic IIIB T135°C Dc
- Barcode Reader

INTRODUCTION

Winmate TC605-EX is a 6-inch ATEX Rugged Handheld with Qualcomm® QCM4490 engineered for oil and gas, chemical processing, and hazardous-area operations. It combines 6-inch display with 1080x2160 resolution, IP65/68, and ATEX to support reliable operation in harsh industrial environments. With IECEx, the TC605-EX helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

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 14.0 (Default) Android 16.0 (Optional)
WLAN	Support	BT	Support
WWAN	4G/5G (Optional)	GNSS	GPS/GLONASS (WWAN only)
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)
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Mechanical

Dimension	167.7 x 78.9 x 15.8 mm	Weight	280g
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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	-10°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	IP65 & IP68
Drop	MIL-STD-810H Method 516.8, 6 ft		

Certification

Certification	CE, FCC, NCC, BSMI, TELEC, VCCI, JATE, BQB, RCM	IECEX Zone 2	IECEX Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc
ATEX Zone 2	ATEX II Ex ic IIC T4 Gc II 3D Ex ic IIIB T135°C Dc		

Control

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

Battery	3.87V 5000mAh	Battery Operating Time	15Hr
Power Rating	9V	Adapter	PD adapter (Optional)

Security Function

SOTI MobiControl	SOTI MobiControl Compliance
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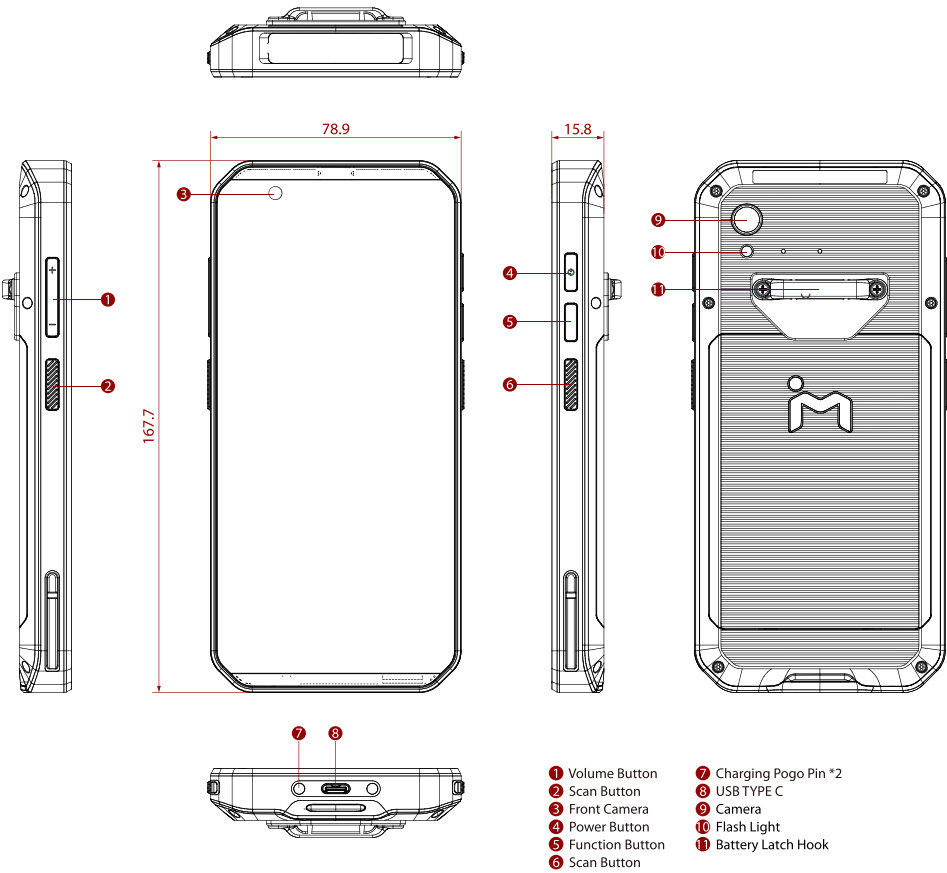
Accessory

Accessory	Battery USB Type-C Cable
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Barcode Scanner

Barcode Scanner	1D/2D Barcode Reader
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DIMENSIONS UNIT:MM



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.
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