

User Manual

xTablet T8655



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Revision History

Version: 1.0

Date: 11, 2025

CE Statement:

BT: 2402~2480MHz: 9.5dBm

BLE: 2402~2480MHz: 9.5dBm

WIFI 2.4G: 2412~2472MHz: 18dBm

WIFI 5G Band: 5150~5250MHz: 19dBm

WIFI 5G Band: 5250~5350MHz: 19dBm

WIFI 5G Band: 5470~5725MHz: 19dBm

WIFI 5G Band: 5725~5850MHz: 13.5dBm

WIFI 6E Band: 5925~6425MHz: 21dBm

NFC: 13.56MHz: -3.83dBuA

GNSS: 1559~1610MHz

The device is restricted to indoor use only when operating in the 5945 to 6425MHz frequency range.

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

NOTE

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure and SAR Statements

FCC RF Radiation Exposure and SAR Statements

Prohibit operating transmitters in the 5.925-7.125 GHz frequency band to control or communicate with unmanned aerial vehicle systems.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Cet dispositif ne peut causer des interférences; et

(2) Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

The device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range.

L'appareil est limité à une utilisation en intérieur lorsqu'il fonctionne dans la gamme de fréquences 5150 à 5250 MHz.

Devices shall not be used for control of or communications with unmanned aircraft systems.

L'équipement ne doit pas être utilisé pour le contrôle ou la communication des systèmes d'aéronefs sans pilote.

This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The device is designed to meet the requirements for exposure to radio waves established by the Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for using at the body is 1.371W/kg.

Cet équipement est conforme aux limites d'exposition aux rayonnements d'industrie Canada établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité à l'exposition aux RF.

Cet émetteur ne doit pas être co-implanté ou exploité conjointement avec toute autre antenne ou émetteur. L'appareil est conçu pour répondre aux exigences d'exposition aux ondes radio établies par industrie Canada. Ces exigences fixent une limite de DAS de 1,6 W / kg en moyenne sur un gramme de tissu. La valeur DAS la plus élevée déclarée en vertu de cette norme lors de la certification du produit pour une utilisation à la caisse est de 1.371W/kg.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for using at the body is 1.371W/kg.

IC Statements

This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Cet dispositif ne peut causer des interférences; et

(2) Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

L'appareil est limité à une utilisation en intérieur lorsqu'il fonctionne dans la gamme de fréquences 5150 à 5350 MHz.

Prohibit operating transmitters in the 5.925-7.125 GHz frequency band to control or communicate with unmanned aerial vehicle systems.

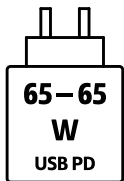
Il est interdit d'utiliser des émetteurs dans la bande de fréquences 5,925-7,125 GHz pour contrôler ou communiquer avec des systèmes de véhicules aériens sans pilote.

- **This Class B digital apparatus complies with Canadian ICES-003.**
- **Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.**



CE Conformity

This device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.



The power delivered by the charger must be between min 65 Watts required by the Tablet PC equipment, and max 65 Watts in order to achieve the maximum charging speed.

Battery Regulations



European Union: Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.



For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

California, USA: The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California.
For further information please visit: <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

Safety Guideline for Using Lithium Battery

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

WEEE Statement



European Union: Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

Safety Instructions

When using this device, it is recommended to maintain a distance of at least 20 centimeters between the front and sides of the device and your body during normal use. Additionally, during communication, ensure that the device is kept at least 1.5 centimeters away from your body and that there is no metal (part) in between. By doing so, it is confirmed that this product (wireless WAN model) complies with national technical standards and international guidelines for radio wave protection.



Read the safety instructions carefully and thoroughly. All cautions and warnings on the equipment or user's manual should be noted.



Keep this equipment away from humidity and high temperature.



Lay this equipment on a stable surface before setting it up.



The openings on the enclosure are used for air convection to prevent the equipment from overheating. Do not cover the openings.



- Do not leave the equipment in an unconditioned environment with a storage temperature above 60°C (140°F) or below -20°C (-4°F), which may damage the equipment.
- This unit should be operated under maximum ambient temperature of 50°C (122°F) or under 60°C (140°F) for light loading applications.



- Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet.
- Always unplug the AC power cord before installing any add-on card or module to the equipment.
- Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the equipment would be left unused for a certain time to achieve zero energy consumption.



Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.



Always keep strong magnetics or electrical objects away from the tablet.



To avoid damage or electrical shock never pour liquid into the opening.

If any of the following situations arise, have the equipment checked by a service personnel:



- The power cord or plug is damaged.
- Liquid has penetrated into the equipment.
- The equipment has been exposed to moisture.
- The equipment is no longer working properly.
- The equipment was dropped and damaged.
- The equipment has obvious signs of breakage.

Green Product Features



- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

Environmental Policy

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.

Introduction

Congratulations on the purchase of MobileDemand's xTablet® T8655. Designed and tested to meet our exacting standards ensures dependability and customer satisfaction.

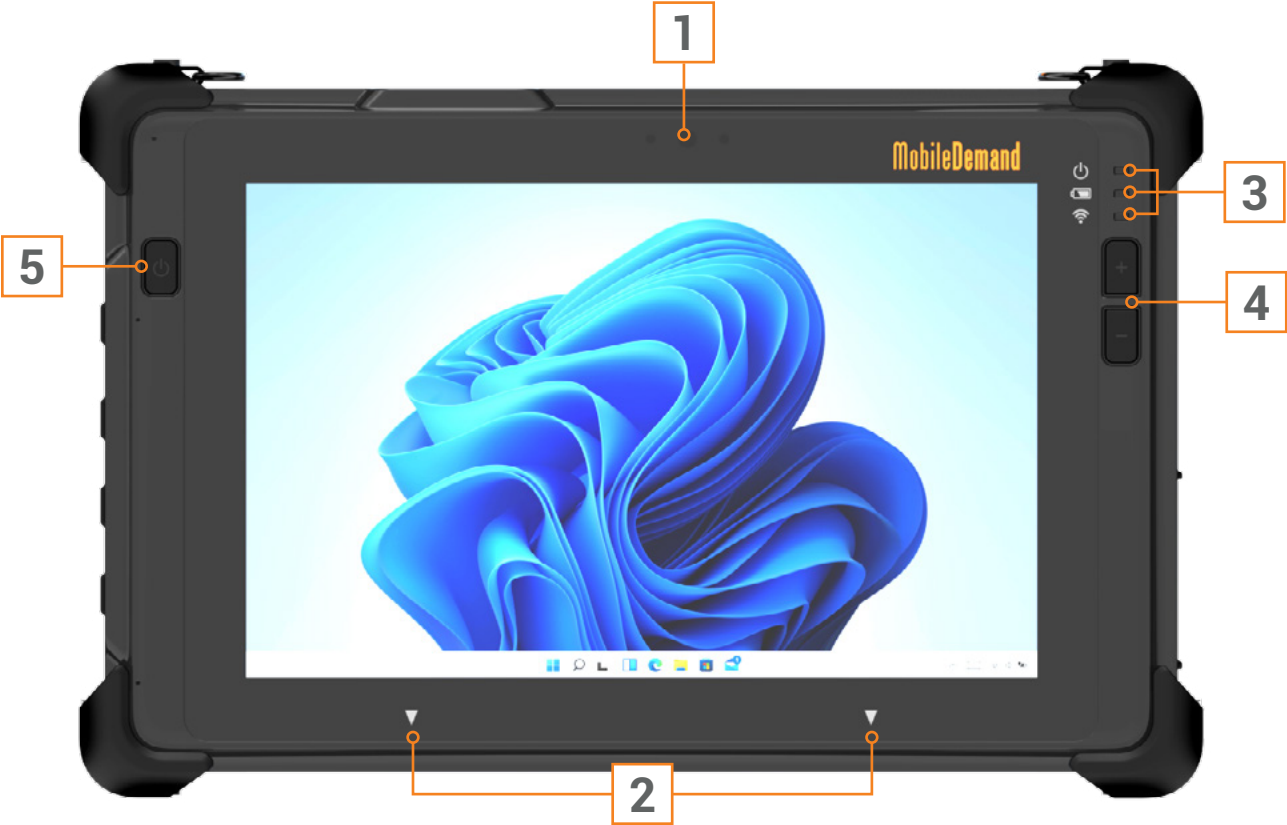
Refer to this manual to guide you through the basic functions and features.

Unpacking

Unpack the shipping carton and check all items carefully. If any item is damaged or missing contact your local dealer immediately. Please keep the box and packing materials in the event you need to ship the unit. The package should contain the following items:

- xTablet T8655
- AC adapter PD Type-C
- Capacitives stylus pen (optional)
- Handstrap with stylus holder (optional)
- NFC (optional)
- Vehicle Dock (optional)
- Office Dock (optional)
- Battery Charger (optional)

Product Overview



1. Front Camera		
2. Internal Microphone		
3. Status LED		
Power	Battery	Wireless LAN (WiFi)
• Green OFF: Power off /Hibernation • Green ON: Power on • Breathing Green: Standby /Sleep	• OFF: Battery is not charging • Green ON: Battery is fully charged • Orange ON: Battery is charging while system ON & OFF • Blinking Orange (4Hz): Battery error. • Blinking Orange (1Hz): Battery capacity is lower than 7%	• LED ON: WiFi /BT Enabled • LED OFF: WiFi /BT Disabled
4. Volume		
5. Power		
• Before powering on the tablet PC for the very first time, you must connect it with AC power. • Press and hold the power button for 2 seconds to power on the tablet PC. • Press and hold the power button for 8 seconds can shut down the tablet PC.		



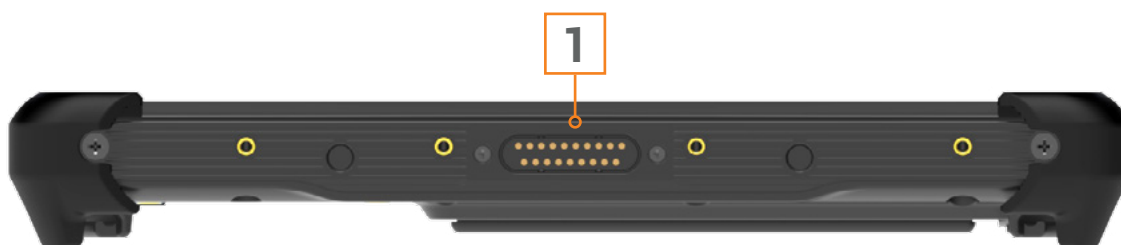
1. Barcode Scanner (optional)



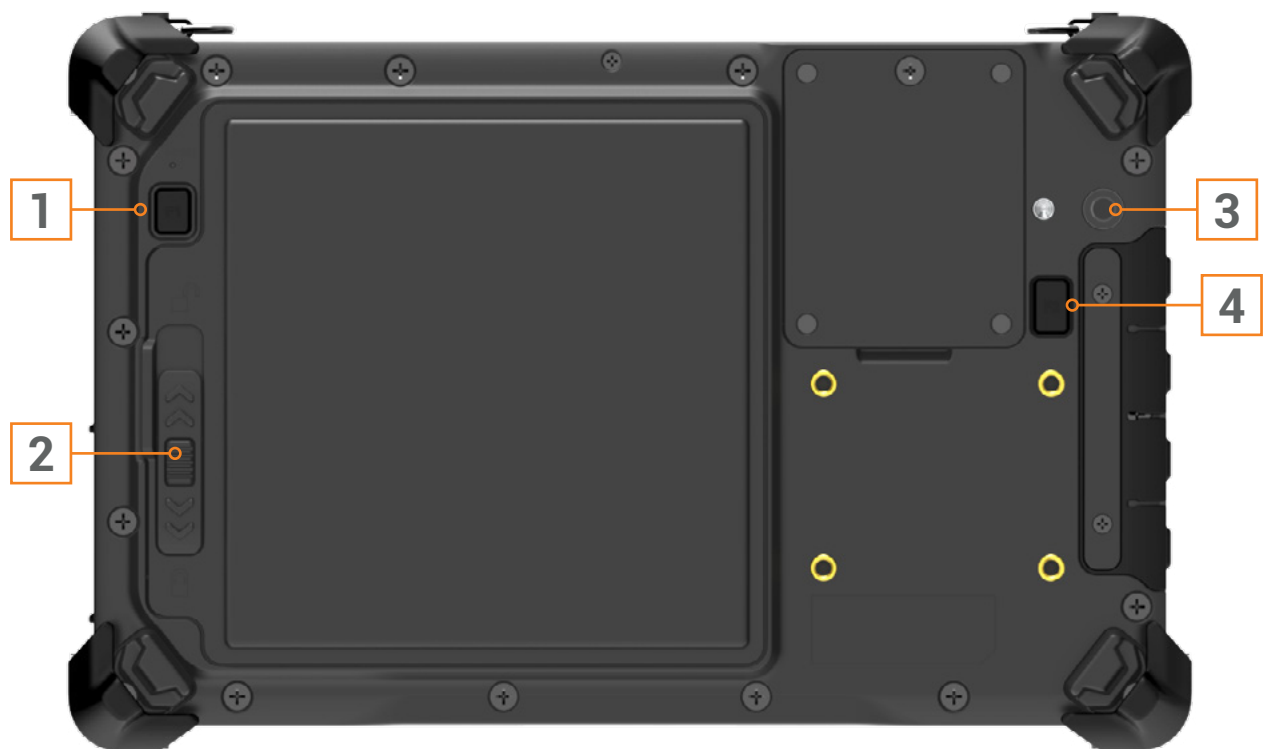
1. Headphone Jack
2. Kensington Lock
3. Micro SD Card Reader



1. USB 10Gbps (USB-A) Port
2. USB 10Gbps Port (USB-C) (with DisplayPort function) both support power delivery
3. RJ-45 Connector



1. Dock Connector



1. F1 Function Button
Press F1 to perform one of the preset functions. (Default: Barcode Scanner Trigger)
2. Battery Latch
3. Rear Camera
4. F2 Function Button
Press F2 to perform one of the preset functions.

Specifications

The specifications listed here is for reference only, and may change without notice.

DIMENSIONS (W/O BUMPERS)	9.2 in (W) x 5.87 in (H) x .87 in (D) 233.6 mm (W) x 149 (H) x 22 (D)
WEIGHT	2.65 lb - base config
DISPLAY	8 in - 1200 (H) x 1920 (W) IPS 650 nits 10 point capacitive multi-touch
CPU	Intel® Alder Lake-N N100
MEMORY	LPDDR5 16GB (on board)
STORAGE	PCIe SSD 256GB/512GB/1TB
O/S	Windows 11 Pro Windows 11 IoT Enterprise LTSC 2024
BATTERY	Standard Battery - 7.68V, 8340mAh, 64W Up to 12Hr battery life ¹ XL Battery - 7.4V, 142mAh, 1W Up to 16Hr battery life ¹
RUGGEDIZED	
Drop Test	MIL-STD 810G (5' drop)
Sealing	IP65 (dust and water)
Tumble Test	1M tumbles
Steel Ball Drop	250gm ball from 50cm w/screen protector
Screen Protector	Oleophobic, scratch-resistant glass
Operating Temp	14° F to +122° F (-10° C to +50° C)
Storage Temp	-4° F to +140° F (-20° C to +60° C)
Operating Humidity	95% non-condensing

I/O PORTS	
USB 3.2 Gen2	Type A (1)
USB 3.2 Gen2	Type C (1) Alt Mode
USB 3.2 Gen2	Type C (1) Alt Mode, 20V PD-IN
Card Reader	Micro (1)
3.5mm Jack	Headphone
Internal D-MIC	(2)
Giga LAN Port	(1)
19 Pin Pogo	(1)
Internal USB	(1)
Internal USB	Power only (1)
SENSORS	Accelerometer Support Gyroscope Support E-Compass Support
CAMERA	Front - 2MP FF Rear - 8MP AF with flash
WIRELESS/NETWORK	
WLAN	Intel® Wi-Fi 6E AX211
Bluetooth	5.3
GPS	GPS: GPS/GLONASS/GALIELO
AGENCY APPROVAL	Fcc, IC, CE, WEEE, RoHS
SECURITY	Firmware TPM (fTPM) 2.0 Kensington Lock

¹Battery life varies significantly depending on settings, app usage, and other factors

Getting Started

Power Supply

This section provides basic safety precautions when using an AC/DC adapter and battery.

AC/DC Adapter

Ensure the xTablet T8655 is connected to an AC power source via the AC adapter before turning it on for the first time. If the xTablet automatically shuts down due to low battery power, it is likely to cause system failure. Below are some Dos and Don'ts for an AC/DC adapter.

Dos

- Use the adapter that shipped with xTablet T8655 only.
- Always be aware of heat coming from the AC/DC adapter while in use.
- Unplug the AC power cord before disassembly the notebook.

Don'ts

- Never cover an adapter that is in use as it can generate heat.
 - Never leave the power cord plugged in after powering off the system.
1. Plug the DC end of the AC/DC adapter into the DC-in jack of the xTablet T8655.
 2. Plug the AC/DC adapter into the power outlet.
 3. When removing, follow steps in reverse order.

(NOTE: The interchangeable plug may vary depending on countries or regions.)

Battery

This Tablet is equipped with a built-in high-capacity Lithium-ion Polymer battery pack. The rechargeable Lithium-ion Polymer battery pack is an internal power source.

The battery pack may be damaged if users attempt to disassemble it. The limited warranty will be voided if the battery pack is disassembled by non-authorized technicians. Please follow your local laws and regulations to recycle the Tablet and the built-in battery pack.

Conserving Battery Power

Efficient battery power is critical to maintain normal operation. If battery power is not managed well, the saved data and customized settings may be lost.

To optimize battery life and avoid sudden power loss, read the tips below:

- Suspend system operation if the system will be idle for a while or shorten the suspend time period.
- Turn off the system if you won't be using it for a period of time.
- Disable unnecessary settings or remove idle peripherals.
- Connect an AC/DC adapter to the system whenever possible.

Charging the Battery Pack

The built-in battery pack can be recharged when the Tablet is connected to the AC power. Please pay attention to the following tips before recharging the battery:

- You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- The built-in battery pack uses Lithium-ion Polymer battery cells that have no "memory effect." It is unnecessary to discharge the battery before recharging. However, to optimize the life of battery, we suggest that consuming the battery power completely once a month is necessary.
- The actual charging time will be determined by the applications in use.

(NOTE: Please do not charge battery in temperature below 0° or above 45°C , it may cause safety issue.)

