DT Research — Mobile POS Tablet

DT301

BASIC OPERATION GUIDE

INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of tablets — the DT301. Featuring a slim yet robust enclosure, the DT301 with 10.1" capacitive touch display is powered by the Intel® processor, offering optimal combinations of performance and power savings. The DT301 is available with Microsoft operating system. The operating system features web browser, client/ server computing software, media player, accessories, and applications support.

PACKAGE CONTENTS

- One DT301 with Battery Pack and Handstrap
- Capacitive Touch Stylus and Lanyard
- AC-DC Power Adapter with Power Cord
- Basic Operation Guide

DT301

DT301:

Battery/Power LED

Input/ Output Ports

A	Headphone Jack
B	USB 3.0 Port
C	DC Power Input
D	GNSS module
E	Back Camera (optional)

Button Functions

BUTTON	ACTION
1	power button
2	programmable button
3	Battery Latch • Push the switch to unlock the latch, than slide the latch to left to remove the battery.
4	RF switch

Precautions

- Always exercise care when operating and handling the DT301.

- Do NOT apply excessive pressure to the display screen.

- Avoid prolonged exposure of the display panel to any strong heat source. Wherever possible, the DT301 should face away from direct light to reduce glare.

- If the AC-DC power adapter is used to recharge or power the tablet, do NOT use any AC-DC adapter other than the one provided or acquired from the manufacturer or its partners.

- In the unlikely event that smoke, abnormal noise, or strange odor is present, immediately power off the DT301 and disconnect all power sources. Report the problem to your device provider immediately.

- Never attempt to disassemble the DT301, as this will void the warranty.

Basic Features

The DT301 wireless tablet integrates a bright display, one USB port, and embedded networking elements such as wireless LAN and Bluetooth or optional 4G LTE. The DT301 is complemented by a suite of accessories, including battery expansion, charging cradles, and battery charger kit, for a comprehensive user experience. A DT301 typically integrates an 802.11ac wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT301 does not come with such a network adapter, please consult your device provider to establish the desired network connectivity.

OPERATION

Internal Battery

Warning ⚠️

The Internal battery pack should only be replaced by an authorized DT Research service representative. Please contact your product and/or service provider for internal battery replacement service.

Powering ON and OFF

To activate the DT301, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT301 in Standby mode, push and quickly release the Power Button. To turn the DT301 off for extended storage, power off safely using any software function that "shuts down computer" provided in the software operating system.

NOTE:
The battery packs shipped with your tablet may be low in power—please use the AC-DC adapter with the DT301 when setting up for the first time to fully charge the internal battery pack. You may charge the external battery pack with it attached to the DT301, or with the optional external battery charger kit.

NOTE:
When the battery pack(s) is (are) charging, the blue-colored Battery LED should blink slowly. If plugging in the AC-DC adapter does not trigger this blinking activity and the LED stays dark, the battery pack(s) may have been drained substantially. Try unplugging/ replugging the AC-DC adapter to the DT301 a few times to activate the charging process.

NOTE:
To conserve power, use (push and quick release) the Power Button to put the tablet in "Standby" mode while not in use. Pushing briefly on the same button will wake up the system within seconds.

NOTE:
Avoid using the Power Button ("hold 4+ seconds" feature) to turn off the tablet—this form of hardware shutdown is intended to be a means of recovery from lockups, and not as normal operation.

Start Up

If the power up (from Standby or otherwise) is successful, the appropriate interface will be displayed after a launch sequence of several seconds. The wireless LAN connection may take 10-15 seconds to be established.

Configuring the Mobile Tablet

The DT301 may be configured using the utilities and methods dictated by the software operating system. The DT301 should be configurable for various properties such as user profiles, network features, and several system elements.

Wireless Networking

Wireless LAN

The DT301 is often delivered with an embedded (user-inaccessible) 802.11ac WLAN adapter equipped with a hidden custom antenna.

• Through the support of typical WLAN adapters, the DT301 should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.

• The SSID and WEP/WPA/WPA2 (if enabled) parameters on the DT301 and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP/WPA/WPA2 encryption (or advanced alternatives) for secure access.

• When WEP/WPA/WPA2 is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.

• Refer to the access point operating manuals for setting up the 802.11 access points.

Bluetooth

The Bluetooth configuration application is enabled from the System Tray or from the Windows Mobility Center. Follow the instructions and options provided within the application to configure and invoke Bluetooth connectivity with the corresponding peripherals.

USING THE MOBILE TABLET

Peripherals Support

Through its USB port, the DT301 supports a wide range of USB-based peripherals. These peripherals are applicable for software installation, applications storage, data storage, and system software recovery and updates.

Remote Management

Depending on software configuration, the DT301 can be centrally managed for asset monitoring and for software control. Please consult your device provider.

For More Support

Users can download the Tablet Modules Basic Operation Guides from the DT Research website.

To Hold the Tablet

Left hand: grip the left back side of the tablet with your left hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.

Right hand: grip the right back side of the tablet with your right hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.

Specifications:

Item	DT301
System	
CPU	Intel® 6th Generation Core™ i7, 2.6GHz
RAM	8GB
Storage	128GB flash
Operating System	Microsoft® Windows® 7 Professional or Windows® 10 IoT Enterprise
Display	10.1" LED-backlight screen with multi touch capacitive touch
Display Resolution	1920 x 1200
Network Interface	Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band; Bluetooth 4.0 LE
Mobile Broadband	provides LTE, DC-HSPA+, HSPA+, HSDPA, HSUPA, WCDMA, CDMA
GNSS Module	U-blox M8 GNSS module with concurrent reception of GPS and GLONASS.
Control Switch and Buttons	1 power button, 1 Wifi switch and 3 programmable buttons
Indicator	1 power/ battery status LED
Microphone	Built-in microphone with DSP for video conference call
Speaker	Built-in speaker
Camera(optional)	5 megapixel back camera with LED flash, auto focus, white balance, gain control and exposure control
I/O Ports	
USB port	1 USB3.0 port
Audio Jack	1 (3.5mm)
DC-in	1
Mechanical and Environmental	
AC/DC Adapter	**Input:** 100 – 240V AC; **Output:** 19V DC, 3.42A
Battery Pack	Hot Swappable battery, 11.4Vdc, 5400mAh,61.56Wh
Backup Battery	3.7Vdc,240mAh
Enclosure	ABS + PC plastics and magnesium-aluminum alloy
Stylus	Capacitive touch stylus or digitizer digital pen
Protective Grips	Rubber bumpers on each corner for handling protection
Dimensions (H x W x D)	7.5 x 10.98 x 0.86 in/ 190 x 279 x 21.9 mm
Weight	2.86 lbs/ 1.3 kg
Regulatory	FCC Class B, CE, RoHS compliant
Operating Temperature	**Operation**: 0°C ~ 40°C ; **Storage**: -20°C ~ 60°C
Humidity	0% – 90% non-condensing

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FCC Warning:

●This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

●This device 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 can radiated 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves.
This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

This device was tested according to FCC SAR procedure, and was tested directly contacted with the Body. While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/eot/ea/fccid after searching on FCC ID:YE3800I.

ISEDC Notices

This device complies with ISEDC's licence 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.

Canada, avis d'ISEDC

Le présent appareil est conforme aux CNR d'ISEDC applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Devraient également être informés les utilisateurs que les radars à haute puissance sont désignés comme utilisateurs principaux (c.-à-utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the ISEDC radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the ISEDC Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'ISEDC. Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce dispositif a été évalué pour et démontré conforme à la Taux ISEDC d'absorption spécifique ("SAR") des limites lorsqu'il est utilisé dans des conditions d'exposition portatifs.