

# DT311

## BASIC OPERATION GUIDE



### ENGLISH

#### **INTRODUCTION**

Thank you for acquiring the latest addition to DT Research's line of tablets — the DT311. Featuring a slim yet robust enclosure, the DT311 with 11.6" TFT display is powered by the Intel® processor, offering optimal combinations of performance and power savings. The DT311 is available with Microsoft® operating systems. Each software operating system features web browser, client/ server computing software, media player, accessories, and applications support.

#### **PACKAGE CONTENTS**

- One DT311 with Battery Pack and Handstrap
- Capacitive Touch Stylus and Lanyard
- AC-DC Power Adapter with Power Cord
- Basic Operation Guide

\*The actual package contents may vary depending on the configuration acquired.

## DT311:



### Input/ Output Ports

- A** USB 3.0 port
- B** Headphone Jack
- C** DC Power Input
- D** Smart Card Reader
- E** Back Camera

### Button Functions

BUTTON	ACTION
1	programmable button
2	power button
3	Keyboard Wedge

## Power/Battery LED Status:

- Blue indicates the battery is 25% to 100% charged
- Blinking blue indicates the battery is charging
- Orange indicates that the battery is between 11% to 25%
- Blinking Orange indicates that the battery is below 10%

## Precautions

- Always exercise care when operating and handling the DT311.
- Do NOT apply excessive pressure to the display screen.
- Avoid prolonged exposure of the display panel to any strong heat source. Wherever possible, the DT311 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 DT313 and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DT311, as this will void the warranty.

## THE DT311

### Basic Features

The DT311 wireless tablet integrates a bright and multi-touch display, one USB port, and embedded networking elements such as wireless LAN and Bluetooth. The DT311 is complemented by a suite of accessories, including battery expansion, charging cradles, and battery charger kit, for a comprehensive user experience.

A DT311 typically integrates an 802.11ac wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT311 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 DT311, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT311 in Standby mode, push and quickly release the Power Button. To turn the DT311 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 DT311 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 DT311, 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 DT311 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 DT311 may be configured using the utilities and methods dictated by the software operating system. The DT311 should be configurable for various properties such as user profiles, network features, and several system elements.

## Wireless Networking

### Wireless LAN

The DT311 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 DT311 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 DT311 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 DT311 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 DT311 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.

## Federal Communication Commission Interference

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 can radiate 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

## Specifications:

Item	DT311
<b>System</b>	
CPU	Intel® Core™ i7, 2.4GHz (4M Cache, up to 3.0GHz)
RAM	8GB
Storage	64GB to 512GB flash
Operating System	Microsoft® Windows® Embedded Standard 7, 7 Professional, Embedded 8 Standard or 8.1 Pro Industry
Display	11.6" LED-backlight screen with capacitive touch
Display Resolution	1920 x 1080 (Full-HD)
Network Interface	Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band; Bluetooth 4.0 LE
Control Switch and Buttons	1 power button, 1 RF switch and 2 programmable buttons
Indicator	1 power/ battery status LED and 1 WLAN active LED
Microphone	Built-in microphone with DSP for video conference call
Speaker	2W built-in speaker
Camera	5 megapixel back camera with LED flash, auto focus, white balance, gain control and exposure control
<b>I/O Ports</b>	
USB port	1 USB3.0 port
Audio Jack	1 (3.5mm)
DC-in	1
Smart Card Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card
<b>Mechanical</b>	
AC/DC Adapter	<b>Input:</b> 100 – 240V AC; <b>Output:</b> 19V DC, 3.42A
Battery Pack	Hot Swappable battery, 7.2V, 6150mAh
Enclosure	ABS + PC plastics and magnesium-aluminum alloy
Stylus	Yes, capacitive touch stylus
Protective Grips	Rubber bumpers on each corner with handstrap for handling protection
Dimensions (H x W x D)	8.2 x 12.3 x 0.86 in/ 208.2 x 312.3 x 22 mm
Weight	2.76 lbs/ 1.25 kg
<b>Environmental</b>	
Water and Dust Resistance	IP65
Vibration and Shock Resistance	MIL-STD-810G
Regulatory	FCC Class B, CE, RoHS compliant
Operating Temperature	<b>Operation:</b> 0°C ~ 40°C (Upgrade option: -20°C ~ 50°C); <b>Storage:</b> -20°C ~ 60°C
Humidity	0% – 90% non-condensing



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## **FCC Regulations:**

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●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 radiate 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.
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## ▶ 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 power 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.