DT Research Mobile Tablet

DT398H

BASIC OPERATION GUIDE

INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of mobile tablets— the DT398H. Featuring an IP65-rated, slim yet robust enclosure, the three-pound DT398H with 9.7" TFT display is powered by the Intel® Core™ i dual core processor, offering optimal combinations of performance and power savings.

The DT398H is available with Microsoft® Windows® Embedded Standard 7, 7 Professional, Embedded Standard 8 or 8.1 Industry Pro, or Linux operating systems. Each software operating system features web browser, client/ server computing software, media player, accessories, and applications support.

PACKAGE CONTENTS

- DT398H with internal battery pack, stylus, and bumpers
- AC-DC Power Adapter with Power Cord
- Basic Operation Guide
- Handstrap

Input/ Output Ports

A	e-SATA USB Hybrid Port
B	Headphone Jack
C	DC Power Input
D	Full Slot Smart Card Reader
E	SD Slot

Button Functions

BUTTON	ACTION
1	Power on, Push/release typically enters Standby mode, or Push/release exits Standby mode or restarts device (software dependent) Push and hold (over 4 seconds) invokes hardware shutdown
2	Programmable, As scanner trigger when equipped with the scanner module
3 4 5	Programmable

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%
- Blinking blue and orange alternately indicates the battery is being warmed up. Do not unplug the AC/DC adapter.

Precautions

- Always exercise care when operating and handling the DT398H.
- Do NOT apply excessive pressure to the display screen.
- We recommend using the Stylus provided to keep the screen clean.
- Avoid prolonged exposure of the display panel to any strong heat source. Wherever possible, the DT398H should face away from direct light to reduce glare.
- If the AC-DC power adapter is used to recharge or power the device, do NOT use any AC-DC adapter other than the one provided with the device 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 DT398H and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DT398H, as this will void the warranty.
- The DT398H internal battery is designed for wide temperature usage. Please do not use it for other tablet models.
- (The wide temperature design is not applicable for external batteries.)

THE DT398H

Basic Features

The DT398H wireless tablet integrates a bright and responsive touch display, 1 e-SATA USB Hybrid port, and embedded networking elements such as wireless LAN or optional 3G.
A DT398H typically integrates an 802.11a/b/g/n/ac wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT398H 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 DT398H, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT398H in Standby mode, push and quickly release the Power Button. To turn the DT398H off for extended storage, power off the device safely using any software function that “shuts down computer” provided in the software operating system.

NOTE:

The battery packs shipped with your device may be low in power—please use the AC-DC adapter with the DT398H when setting up the device for the first time to fully charge the internal battery pack. You may charge the external battery pack with it attached to the DT398H, 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 DT398H a few times to activate the charging process.

NOTE:

To conserve power, use (push and quick release) the Power Button to put the device 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 device—this form of hardware shutdown is intended to be a means of recovery from device 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 device may be configured using the utilities and methods dictated by the software operating system. The DT398H should be configurable for various properties such as user profiles, network features, and several system elements.

Calibration

The touch display for the DT398H is calibrated before shipping. In the event that the calibration has been modified or is unsatisfactory, the respective calibration routines (e.g., PenMount (PM) to calibrate the touch interface may be used. Such applications are typically executed through touch input via Stylus or through mouse click via a USB mouse.

Wireless Networking

Wireless LAN

The DT398H is often delivered with an embedded (user-inaccessible) 802.11a/b/g/n/ac WLAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the DT398H 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 DT398H 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 Management

Where supported by software, many of the hard buttons on the DT398H are programmable to perform a function of the user's choice. To activate the button re-assignment application, invoke the Button Manager application.

Brightness Control

To control the screen brightness, launch the System Utility. The System screen will display a Brightness control section with up and down arrows that can be activated with the stylus.

Battery and Power Management

The DT398H is equipped with an internal 1880mAh Li-Ion battery pack that is capable of supporting approximately 3 - 4 hours of continuous operation. The period between battery recharges can be significantly lengthened by putting the device into Standby mode through the Power Button (see Buttons Function Table) whenever the device is not in use. Depending on the operating software, the DT398H may also be configured to enter various power-saving modes via the Power Button or through timed entry.

USING THE Mobile Tablet

Peripherals Support

Through its e-SATA USB Hybrid port, the DT398H supports a wide range of USB-based peripherals. These peripherals are applicable for software installation, applications storage, data storage, software recovery and update.

For More Support

Users can download the Software Utility and Modules Operation Guides from the DT Research website.
If the DT398H comes with a 3G module, please contact your product and/or service provider for the SIM Card Slot Location and Insertion Guide.

SPECIFICATIONS

System	
CPU	Intel® Core™ i7, 1.8GHz
RAM	8GB DDR3L
Storage	64GB
Operating System	Microsoft® Windows® Embedded Standard 7, 7 Professional, Embedded 8 Standard, 8.1 Industry Pro or Linux
Display	9.7" LED-backlight outdoor display with capacitive touch; Sunlight readable display with resistive touch option
Display Resolution	1024 x 768 (XGA)
Trusted Platform Module	Yes, TPM 1.2 support
Fan	Yes
Control Switch and Buttons	1 power button, 3 side buttons, 1 trigger button and 1 Wi-Fi switch
Indicator	1 power/ battery status LED and 1 WLAN active LED
Microphone	Built-in Microphone
Speaker	Built-in speaker
SD Slot	Yes, up to 64GB
NIST Compliant	Yes
Sensor	Built-in gyroscope sensor, e-Compass sensor, pressure sensor and 3-axis accelerometer
I/O Ports	
USB 2.0 Port	1 eSATA USB hybrid port
Headphone-out	1
DC-in	1
Full Slot Smart Card Reader	Reads ISO 7816 T=0, T=1; 1.8/3/5V smart card
Mechanical and Environmental	
AC/DC Adapter	Input: 100 – 240V AC; Output: 19V DC, 6.31A
Battery Pack	Internal 14.8V, 1880mAh
Enclosure	ABS + PC plastics
Stylus	Yes, capacitive touch stylus
Protective Grips	Rubber bumpers on each corner with handstrap for handling protection
Dimensions (H x W x D)	9.05 x 10.8 x 1.4 inch/ 230 x 275 x 35 mm
Weight	3.1lbs/ 1.4kgs
Water and Dust Resistance	IP65* IP65 rating may not be applicable for units with module options
Regulatory	FCC Class B, RoHS compliant
Temperature	Operation: 32°F to 104°F (0°C to 40°C); Govt/Military: -4°F to 122°F (-20°C to 50°C)
	Storage: -4°F to 140°F (-20°C to 60°C)
Humidity	0% – 90% non-condensing

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