

DT398

BASIC OPERATION GUIDE



INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of mobile tablets—the DT398. Featuring an IP65-rated, slim yet robust enclosure, the two-pound DT398 with 9.7" TFT display is powered by the Intel® Celeron® or Core™ i dual core processor, offering optimal combinations of performance and power savings. An external battery expansion option provides approximately 3-4 hours of additional battery operation for up to eight hours of mobile usage.

The DT398 is available with Windows® Embedded Standard 7, Windows® 7 Pro or Linux operating systems. Each software operating system features web browser, client/server computing software, media player, accessories, and applications support.

PACKAGE CONTENTS

- One DT398 with Internal Battery Pack, Stylus and Bumpers
- AC-DC Power Adapter with Power Cord
- Basic Operation Guide
- Handstrap

Major options, depending on configuration:

- Desktop Charging Cradle with DC-in Power Jack and Ethernet/ USB Ports
- External Battery Pack and Battery Charger Kit
- Vehicle/ Wall Mount Cradle

The DT398



Input/ Output Ports

- A** USB 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
6	Wi-Fi switch

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 DT398.
- 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 DT398 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 DT398 and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DT398, as this will void the warranty.
- The DT398 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 DT398

Basic Features

The DT398 wireless tablet integrates a bright and responsive touch display, 1 USB port, and embedded networking elements such as wireless LAN or optional 3G. The DT398 is complemented by a suite of accessories, including battery expansion, docking cradles, and wall/ vehicle mount cradles, for a comprehensive user experience.

A DT398 typically integrates an 802.11a/b/g/n wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT398 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 DT398, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT398 in Standby mode, push and quickly release the Power Button. To turn the DT398 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 DT398 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 DT398, 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 DT398 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 DT398 should be configurable for various properties such as user profiles, network features, and several system elements.

Calibration

The touch display for the DT398 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 DT398 is often delivered with an embedded (user-inaccessible) 802.11a/b/g/n WLAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the DT398 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 DT398 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 DT398 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 DT398 is equipped with an internal 1880mAh Li-Ion battery pack that is capable of supporting approximately 3 - 4 hours of continuous operation. With the internal battery and an external battery pack that clips (hot-pluggable) onto the back of the device, the maximum period of continuous operation will be approximately 6 - 8 hours. 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 DT398 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 USB port, the DT398 supports a wide range of USB-based peripherals. These peripherals are applicable for software installation, applications storage, data storage, docking or software recovery and update. The DT398 is complemented by an optional Desktop Cradle or Wall/ Vehicle Mount Cradle for support, pass-through charging, and connection to a range of USB peripherals, including keyboard and mouse. The Cradles offer the following interfaces: a DC-in port for the AC-DC adapter, an Ethernet port, a VGA output and USB ports. Always seat the DT398 securely onto the cradle. The cradle must be powered by the AC-DC adapter for the Ethernet and USB ports to function. The battery packs on the DT398 may be recharged by connecting the AC-DC adapter directly to the DC-in port on the DT398 or through the DC-in port on the Cradle while the DT398 is docked.

For More Support

Users can download the Software Utility and Modules Operation Guides from the DT Research website. If the DT398 comes with a 3G module, please contact your product and/or service provider for the SIM Card Slot Location and Insertion Guide.

SPECIFICATIONS

System		DT398	
CPU	Intel® Atom™ Dual Core, 1.1GHz		
RAM	4GB		
Storage	8GB to 256GB		
Operating System	Microsoft® Windows® Embedded Standard 7, Windows® 7 Professional, or Linux		
Display	8.4" LED-backlight screen with capacitive touch		
Display Resolution	800 x 600 (SVGA)		
Trusted Platform Module	Yes, TPM 1.2 support		
Fan	Fanless		
Control Switch and Buttons	1 power button and 1 trigger button		
Indicator	1 power/ battery status LED and 1 WLAN active LED		
Speaker	Built-in speaker		
Network Interface			
WLAN	Wi-Fi 802.11a/b/g/n		
Bluetooth	Bluetooth 4.0+HS		
WWAN/ GPS	3G module with GPS positioning and navigation (optional)		
I/O Ports			
USB Port	1		
Headphone-out	1		
DC-in	1		
SD Slot	Yes, support 64GB		
Mechanical and Environmental			
AC/DC Adapter	Input: 100 – 240V AC; Output: 19V DC, 6.31A		
Battery Pack	Internal 14.8V, 1880mAh/ Optional: External 14.8V, 1880mAh		
Enclosure	ABS + PC plastics and magnesium-aluminum alloy		
Protective Bumpers	Rubber with handstrap		
Dimensions (H x W x D)	8.9 x 10.8 x 1.4 in/ 227 x 275 x 35 mm		
Weight	3.08 lbs/ 1.4 kg		
Regulatory	FCC Class B, RoHS compliant		
Temperature	Operation: 32°F to 104°F (0°C to 40°C); Upgrade option: -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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