

SPECIFICATIONS

System	
Processor	AMD Mobile Sempron™, 1GHz
RAM	1GB or 2GB
Storage	Up to 16GB flash or 32GB to 64GB SSD
Operating Systems	Windows® XP Embedded or Windows® XP Professional
Display	12.1" TFT-LCD with resistive touch; outdoor-viewable option
Display Resolution	1024 x 768 (XGA)
Network Interface	Ethernet 10/ 100/ 1000MB Base-T LAN; 802.11a/b/g WLAN
Control Buttons	1 mechanical switch power button, 1 power button, 9 programmable buttons
Speaker	Built-in speaker
Input/Output Ports	1 COM port, 1 Microphone-in jack, 1 Headphone-out jack, 4 USB 2.0 ports, 1 Ethernet RJ45, 2 DC-in (AC-DC/ DC-DC)
Power	
AC/DC Adapter	Input: 100 – 240V AC, 50/60 Hz; Output: 18.5V DC, 3A
Mechanical	
Enclosure	Magnesium-aluminum alloy
Dimensions (H x W x D)	9.45 x 12.2 x 1.57 in/ 240 x 310 x 40 mm
Weight	With UPS battery: 6.6 lbs/ 3 kg Without UPS battery: 5.5 lbs/ 2.5 kg
Environmental	
Vibration	MIL-STD-810F 514.5C-1, U.S. highway truck vibration exposures
Shock	MIL-STD-810F 516.5, operating 40G (11ms)
Dust and Water Proof	IP65
Regulatory	FCC Class B, CE, C-Tick, RoHS compliant
Temperature	Operation: 0°C - 40°C; Storage: -20°C - 60°C
Humidity	0% - 90% non-condensing

* Specifications subject to change without notice.

DT520

BASIC OPERATION GUIDE



ENGLISH

INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of tablet devices- the DT520, a rugged fixed-mount tablet designed to run applications that support specific business processes.

The DT520 integrates a 12.1" TFT LCD display and AMD Mobile Sempron™ 1GHz processor, and enables real-time data access in harsh environments by combining wireless networking with shock, vibration and water protection. The compact, yet robust device is IP65 and MIL-STD-810F highway truck vibration exposures, supporting water-proof and dust-proof operation and standards.

The DT520 offers Microsoft® Windows® XP Embedded or Professional operating systems. Each system features web browser, client/ server computing software, media player, accessories, and applications support, enabling timely and cost-effective deployment of applications.

Please take a few moments to review the contents of this document to ensure that the setup and startup proceed smoothly. The DT520 is ready for use, out of the box, in its default configuration when powered by the power source provided. The following discussion offers guidance on the hardware elements and features of the DT520. Please refer to your device provider for information pertaining to the software operating system or software applications.

Package Contents

- DT520 rugged fixed-mount tablet
- AC/DC power adapter with power cord
- Basic operation guide

Precautions

- Always exercise care when operating and handling the DT520.
- Never disassemble any portion of the enclosure, as this will void any product warranty on the DT520.
- Do not use any AC/DC adapter other than the one provided with the device or a replacement acquired from the manufacturer.

Packaging

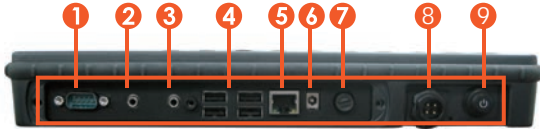
- The DT520 is packaged with recyclable materials and designed for maximum protection in transportation and handling.
- When possible, please save the packaging carton and protective inserts for re-use if there is ever a need to ship the DT520.

I/O Panels

Lower I/O Panel

The DT520 has a comprehensive set of I/O ports. The following ports are located along the lower rear edge of the display unit.

1. Serial port
2. Audio-out jack
3. Microphone-in jack
4. Four (4) USB 2.0 ports
5. Ethernet port
6. DC in jack
7. Fuse
8. DC power inlet
9. Power Switch



Front Panel Function Buttons

The front panel of the DT520 features power and programmable buttons.

10. Programmable buttons:

The nine (9) buttons are intended to be user programmable via software in applicable operating systems.



11. Power button

- May be configured to perform different functions, depending on the software operating system.
- Depending on the OS, a brief, firm push will trigger software-enabled entry into Shutdown or Standby modes. Push in similar manner to Restart or to exit Standby mode.
- Push and hold for over 4 seconds to forcefully shut down the device. This method of powering off should only be used when proper shutdown through software is not possible.

Rear Mounting

The DT520 is designed to be secured to VESA-compliant mounting arms or stands. The VESA-compliant mounting holes at the rear of the device will mate with VESA mounts or arms to meet the requirements of the deployment.



1. The tablet without the VESA-compliant mounting arm



2. Attach the VESA-compliant mounting arm or stand to the display using the same screws removed in step 1.



3. The display successfully mounted on a VESA - compliant mounting arm.

Options

The DT520 has a number of optional configurations in both software and hardware.

These include:

1. Outdoor-viewable touch screen
2. SSD storage
3. Back-up battery pack implemented as an uninterruptible power supply (UPS)
4. Waterproof keyboard and keyboard tray
5. U bracket
6. DC power cable