



DT Research

DT391UF Mobile Rugged Tablet Rugged UHF RFID Integrated Tablet

The DT391UF rugged tablet features seamless integration of a 9" outdoor display capacitive touch screen, a Microsoft® Windows operating system, an energy efficient Intel® processor, and the UHF (ultra-high frequency) RFID module within a compact, lightweight yet durable package. With built-in WiFi and Bluetooth, and optional camera and WWAN communication modules, this UHF RFID tablet with efficient foldable antenna facilitates distance data capture on a powerful mobile tablet system, streamlining operation workflow and improving efficiency. Rated IP65 and MIL-STD-810G, the DT391UF tablet performs in challenging environments that require stable operations, whether in a warehouse, field logistics, or production line management.

• Features

- 9-inch capacitive touch and outdoor display screen
- Intel® Celeron® dual-core processor; high performance with low power consumption
- Support for Microsoft® Windows® Embedded Standard 7 or 7 Professional operating system
- Integrated UHF RFID Reader with up to 5m reading distance
- Fanless, lightweight and durable design
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- Integrated 3-axis accelerometer gyroscope, e-compass and pressure sensors
- Hot swappable battery for all-day operation

• Applications

The DT391UF rugged mobile tablet is ideal for the following applications :

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|-----------------------------|--------------------------------|
| • Access Control | • Product Tracking |
| • Inventory/ Warehousing | • Production Line |
| • Infrastructure Management | • Transportation and Logistics |



• Specifications

System	
CPU	Intel® Celeron® Dual Core, 1.58GHz (up to 2.17GHz)
RAM	4GB
Storage	64GB to 128GB Flash
Operating System	Microsoft® Windows® Embedded Standard 7 or 7 Professional
Display	9" LED-backlight screen with capacitive touch; outdoor display
Display Resolution	1024 x 600 (WSVGA)
Trusted Platform Module	TPM 1.2 support
Control Switch and Buttons	1 power button
Indicator	1 power/ battery status LED and 1 WLAN active LED
Speaker	1 Built-in speaker, 1W
Sensor	Built-in gyroscope sensor, e-compass sensor, pressure sensor and 3-axis accelerometer
Network Interface	
WLAN	Wi-Fi 802.11ac; 2.4GHz/ 5GHz dual band
Bluetooth	Bluetooth 4.0
I/O Ports	
USB Port	2
Headphone-out	1
DC-in	1
SD Slot	Micro-SD x 1, up to 64GB
Mechanical and Environmental	
AC/DC Adapter	Input: 100 – 240V AC; Output: 19V DC, 2.36A
Battery Pack	7.4V, 3760mAh (hot-swappable)
Enclosure	ABS + PC plastics
Protective Grip	Rubber bumpers on each corner with handstrap for handling protection
Dimensions (H x W x D)	9.69 x 7.32 x 1.5 in (246 x 186 x 38.2 mm)
Weight	2.56 lbs (1.16 kg)
Water and Dust Resistance	IP65
Vibration and Shock Resistance	MIL-STD-810G
Regulatory	FCC Class B, CE, RoHS compliant
Temperature	Operation: -10°C ~ 50°C ; Storage: -20°C ~ 60°C
Humidity	0% – 90% non-condensing

* Specifications subject to change without notice.

UHF RFID Module

Working Frequency	840 ~ 960MHz; support China2, China1, US, EU, Korea, Japan, etc.
Reading Range	Up to 16.5ft. (5m)
Tag Protocol	EPCglobal UHF Class 1 Gen 2/ ISO 18000-6C

• Major Options

Camera

Sensor	1/4" CMOS, 5M sensor with LED flash
Resolution	Support up to 2594 x 1944 pixels still image
Automatic Image Control	Automatic white balance, gain control, and exposure control
Focusing Type	Auto focus
Focus Distance	3.94 in (10cm) ~ ∞

WWAN

Support WCDMA/HSPA/HSPA+/EDGE/GPRS/GSM network

• Accessories

The DT391UF has a suite of customized accessories to meet numerous deployment needs.

- 2-Bay External Battery Charger



- X-Handstrap



- CP202 Battery Pouch



- External Battery Pack



- Capacitive touch stylus



- Shoulder Strap for Tablets

