

Rugged Tablet

Slim, Rugged, Multi-functional Wireless Computing



The DT Research Rugged Tablets feature the integration of brilliant capacitive touchscreens and high performance, energy-efficient Intel® processors within slim, lightweight, and durable packages. With built-in camera, smart card/CAC reader, Wi-Fi, Bluetooth modules as well as optional 2D barcode scanner, NFC/RFID reader and mobile broadband modules, these robust tablets offer seamless information capture and transmission for improved workflow. With IP65 and MIL-STD-810G rating and MIL-STD-461F certification, the DT Research Rugged Tablets provide reliable operation in harsh, mission critical environments.

Features

- Intel® 6th Generation Core™ i series, Celeron® or Atom™ processor
- Support for Microsoft® Windows® 7, Windows® 10 IoT Enterprise, or Android operating system
- 8.9", 10.1" or 11.6" Full-HD capacitive touchscreen
- High capacity, hot-swappable battery pack
- Integrated back camera and smart card/ CAC reader
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- MIL-STD-461F for EMI and EMC tolerance
- Optional 2D barcode scanner, NFC/RFID reader, GNSS and 4G modules
- Optional C1D2-certified design
- Optional EIA/RS-232/422/485 and Ethernet ports



Applications

- Government/ Military
- Inventory/ Warehousing
- Control/ Monitoring
- Finance
- Hospitality
- Retail
- Healthcare
- Education
- Manufacturing

Specifications



Model	DT301C	DT301T	DT311T	DT395CR
System				
CPU	Intel® Celeron® processor	Intel® 6 th Generation Core™ i5 or i7 processor	Intel® 6 th Generation Core™ i5 or i7 processor	Intel® Atom™ Quad Core, 1.44GHz (up to 1.84GHz)
RAM	4GB	8GB	8GB	4GB
Storage	128GB to 256GB	128GB to 1TB Flash	128GB to 1TB Flash	64GB to 128GB
Operating System	Microsoft® Windows® 7 Professional or Windows® 10 IoT Enterprise			Microsoft® Windows® 10 IoT Enterprise or Android 5.1
Display	10.1" LED-backlight screen with capacitive touch	10.1" high brightness, LED-backlight screen with capacitive multi-touch	11.6" LED-backlight screen with capacitive multi-touch	8.9" LED-backlight screen with capacitive touch; anti-reflection outdoor viewable
Display Resolution	1920 x 1200	1920 x 1200	1920 x 1080	1920 x 1200
NIST Compliant	Yes	Yes	Yes	N/A
Fan/ Fanless	Fanless	Fanless	Fanless	Fanless
Control Switch and Buttons	1 power button, 1 RF switch and 3 programmable buttons		1 power button, 1 trigger button, 3 programmable buttons and 1 RF switch	1 power button, 1 trigger button, 1 brightness control button and 1 up/down button for the volume
Indicator	1 power/ battery status LED		1 power/ battery status LED	1 display mode LED and 1 battery status LED
Microphone	Built-in microphone with DSP for real-time video			Built-in microphone
Speaker	Built-in speaker	Built-in speaker	Built-in speaker	Built-in speaker
Camera	Optional	5 megapixel back camera with auto focus, white balance, gain control and exposure control		Optional
Network Interface				
WLAN	Wi-Fi 802.11ac; 2.4GHz/5GHz dual band			
Bluetooth	Bluetooth 4.0 LE	Bluetooth 4.0 LE	Bluetooth 4.0 LE	Bluetooth 4.0 LE
I/O Ports				
USB Port	USB 3.0 X 1	USB 3.0 X 1	USB 3.0 X 1	USB 2.0 X 1
Headset Jack	1 (3.5mm)	1 (3.5mm)	1 (3.5mm)	1 (3.5mm)
DC-in	1	1	1	1
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card		Full-slot or half-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card	N/A
SD Slot	N/A	N/A	1 full size SD card slot	1 micro-SD card slot
Mechanical and Environmental				
AC/DC Adapter	Input: 100 – 240V AC; Output: 19V DC, 3.42A			
Battery Pack	Hot Swappable battery, 7.2V, 6150mAh	Hot swappable battery, 11.4V, 5400mAh Hot swappable battery, 11.4V, 8000mAh (optional)		Internal 3.6V, 8800mAh
Enclosure	ABS + PC plastics and magnesium-aluminum alloy			ABS + PC plastics
Protective Bumpers	Rubber bumpers on each corner for handling protection			
Dimensions (H x W x D)	7.5 x 10.7 x 0.86 in/ 190 x 272 x 21.9 mm	7.8 x 11 x 1.6 in/ 198 x 280 x 41 mm	8.3 x 12.4 x 1.6 in/ 212 x 316 x 41 mm	7.7 x 10 x 1.3 in/ 196 x 256 x 33.5 mm
Weight	2.86 lbs/ 1.3 kg	3.1 lbs/ 1.4 kg	3.5 lbs/ 1.6 kg	2.87lbs/ 1.3kgs
EMI and EMC Tolerance	MIL-STD-461F	MIL-STD-461F	MIL-STD-461F	N/A
Vibration and Shock Resistance	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G	MIL-STD-810G
Water and Dust Resistance	IP65	IP65	IP65	IP65
Anti Explosion	Class 1 Division 2 (C1D2, optional)	Class 1 Division 2 (C1D2, optional)	N/A	N/A
Hazard of Electromagnetic Radiation to Ordnance Testing	N/A	N/A	Yes	N/A
Regulatory	FCC Class B, CE, RoHS compliant			
Temperature	Operation*: -20°C to 60°C (-4°F to 140°F), tested under MIL-STD-810G method 501.6, Procedure II, and method 502.6, Procedure II * For battery safety and optimal functionality and performance, the recommended usage temperature range is from -10°C to 45°C (14°F to 113°F) Storage: -55°C to 70°C (-67°F to 158°F)			Operation: -10°C to 50° (C14°F to 122°F) Storage: -20°C to 60°C (-4°F to 140°F)
Humidity	0% – 90% non-condensing			
Major Options				
Camera	5 megapixel front and back cameras	5 megapixel front camera	5 megapixel front camera	5 megapixel front and back cameras
Barcode Scanner (2D)	2D barcode scanner; reads 1D also			
NFC/RFID Reader	HF/RFID 13.56MHz reader (ISO 15693 and 14443 A compliant)			
I/O Port Modules	N/A	N/A	EIA/RS-232/422/485 and Ethernet ports, 6-pin lockable connector included	HDMI-in and Ethernet ports or *EIA/RS-232/422/485 and Ethernet ports, 6-pin lockable connector included
GNSS Module	U-blox M8 GNSS module with concurrent reception of GPS and GLONASS. Industry leading -167dBm navigation sensitivity.			N/A
Mobile Broadband	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS

* Specifications subject to change without notice.

