DT Research

DT391GS/ DT395GS
Rugged GNSS Tablet

Rugged Tablet with Integrated High-Accuracy GNSS

The DT Research Rugged GNSS Tablets feature seamless integration of capacitive touchscreens, energy efficient Intel® Atom™ and Celeron® processors, and the high-precision positioning modules within compact and lightweight yet durable packages. With the high-accuracy GNSS modules, Microsoft® Windows® or Android operating systems, and optional data capture modules, these tablets are compatible with existing GIS software for mapping applications and bring together the advanced workflow for GIS data capture, accurate positioning, and data transmitting. Rated IP65 and MIL-STD-810G, the DT Research Rugged GNSS Tablets are designed for field applications, providing reliable operation in harsh, mission-critical environments.

Features

- 8.9" or 9" LED-backlight capacitive touchscreen
- Intel® Atom™ or Celeron® processor; high performance with low power consumption
- Support for Microsoft® Windows® 7 Professional, Windows® 10 IoT Enterprise or Android operating system
- Integrated high accuracy GNSS module
- Fanless, lightweight and durable design
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- Optional 5 megapixel back camera with LED flash, auto focus, white balance, gain control and exposure control
- Optional Hirose connector and Ethernet ports module for DT395GS
- Optional Class 1 Bluetooth (1000 ft.) for DT395GS
- Optional 3G WWAN or 4G LTE modules

Applications

- Agriculture
- Mapping and GIS
- Surveying and Mining
- Natural Resources
- Utilities and Government
- Engineering and Construction
- Transportation
- Logistics
- Water Management

Specifications

Model	**DT391GS**	**DT395GS**
System		
CPU	Intel® Celeron® Dual Core, 1.58GHz (up to 2.17GHz)	Intel® Atom™ Quad Core, 1.44GHz (up to 1.84GHz)
RAM	4GB	4GB
Storage	64GB to 256GB flash	64GB flash
Operating System	Microsoft® Windows® 7 Professional or Windows® 10 IoT Enterprise	Microsoft® Windows® 10 IoT Enterprise or Android
Display	9" LED-backlight screen with capacitive touch	8.9" LED-backlight screen with capacitive touch
Display Resolution	1024 x 600; optional 1280 x 800	1920 x 1200
Trusted Platform Module	TPM 1.2 support	N/A
Control Switch and Buttons	1 power button	1 power button, 1 trigger button, 1 Wi-Fi switch, 1 monitor mode switch button and 1 up/down button for brightness and volume
Indicator	1 power/ battery status LED and 1 WLAN active LED	1 power/ battery status LED
Speaker	1 built-in speaker	1 built-in speaker
Cameras	5 megapixel back camera with LED flash	Optional
Network Interface		
WLAN	Wi-Fi 802.11ac; 2.4GHz/ 5GHz dual band	Wi-Fi 802.11b/g/n
Bluetooth	Bluetooth 4.0	Bluetooth 4.0 LE
I/O Ports		
USB Port	2 USB 2.0	1 USB 2.0
Headphone-out	1	1
DC-in	1	1
SD Slot	1 microSD card slot	1 microSD card slot
Mechanical and Environmental		
AC/DC Adapter	**Input:** 100 – 240V AC; **Output:** 19V DC, 3.42A	**Input:** 100 – 240V AC; **Output:** 19V DC, 3.42A
Battery Pack	7.4V, 3760mAh (hot-swappable); optional 8800mAh	Internal 3.6V, 8800mAh
Enclosure	ABS + PC plastics	ABS + PC plastics
Bumpers	Rubber bumpers on each corner with handstrap for handling protection	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	7.7 x 10 x 1.3 in/ 196 x 256 x 33.5 mm
Weight	2.56 lbs/ 1.16 kg	2.87 lbs/ 1.3 kg
Water and Dust Resistance	IP65	IP65
Vibration and Shock Resistance	MIL-STD-810G	MIL-STD-810G
Regulatory	FCC Class B, CE, RoHS compliant	
Temperature	**Operation**: -10°C ~ 50°C ; **Storage**: -20°C ~ 60°C	**Operation**: -10°C – 50°C; **Storage**: -20°C – 60°C
Humidity	0% – 90% non-condensing	
Major Option		
Camera	Standard	5 megapixel back camera with LED flash
I/O Port Module	N/A	Hirose connector and Ethernet port
Long Range Bluetooth	N/A	Class 1 Bluetooth (1000 ft.)
Mobile Broadband	3G WWAN or 4G LTE module	3G WWAN or 4G LTE module
GNSS Options		
	Hemisphere single frequency GNSS module with embedded antenna. Supports the L1 frequency from GPS features SBAS support.	U-blox M8 GNSS module with concurrent reception of GPS and GLONASS. Industry leading -167dBm navigation sensitivity.
	Hemisphere dual frequency GNSS module with embedded antenna. Supports dual frequency from GPS and GLONASS constellations.	
	Trimble single frequency GNSS module with embedded antenna: Supports the L1 frequency from the GPS, GLONASS, Galileo, and Compass constellations.	
	Trimble triple frequency GNSS module with embedded antenna: Supports both triple frequency from the GPS and GLONASS constellations plus dual frequency from BeiDou and Galileo.	

* Specifications subject to change without notice.

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