



Rugged Convertible Laptop

Compact, Purpose-Built for Mission-Critical Environments

The DT Research Rugged Convertible Laptops feature the integration of convertible touchscreen, Intel® Core™ i processors, and full-size keyboards. With a built-in smart card/CAC reader as well as optional IR/RGB front cameras for facial recognition, these laptops provide advanced identity verification for secure data access. The optional night vision supports viewing of MIL-STD-3009 class B NVIS mode, offering another layer of security for light-sensitive situations. Rated IP65, MIL-STD-810H/461G and supporting a wide temperature range, the Convertible Rugged Laptops provide reliable operation in harsh, mission-critical environments.

Features

- 11.6", 13.3" or 15.6" high-brightness touchscreen; digital pen support
- Intel® Core™ i5/i7 processor
- Microsoft® Windows® 11 IoT Enterprise operating system
- Backlit keyboard with multi-touchpad
- Fanless, robust design with antimicrobial coating
- Built-in smart card/CAC reader
- Dual SSD slots, support up to 4TB with RAID 0/RAID 1
- Dual RAM slots, up to 64GB
- Hot-swappable batteries for 24/7 operation
- Modular design to easily replace the SSD and batteries
- IP65-rated for water and dust resistance
- MIL-STD-810H for shock and vibration protection
- MIL-STD-461G for EMI and EMC tolerance
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified



Major Options

- 4K Resolution Screen (LT350)
- MIL-STD-3009 Class B Night Vision Screen
- Front Full-HD Camera
- 4G LTE/AWS
- GPS Module (LT320/LT330/LT350)
- Embedded NVIDIA RTX™ A1000 or A2000 MXM Graphics Card (LT355)

Specifications



Model	LT320	LT330	LT350	LT355
System				
CPU	Intel® Core™ i7-10710U, 6-Core, 1.1 GHz (up to 4.7 GHz)	Intel® Core™ i5-1240P, 12-Core, up to 4.4 GHz Intel® Core™ i7-1260P, 12-Core, up to 4.7 GHz		Intel® Core™ i5-1340P, 12-Core, up to 4.6 GHz Intel® Core™ i7-1370P, 14-Core, up to 5.2 GHz
RAM	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)
Storage	512GB to 2TB SSD	512GB to 2TB SSD	512GB to 2TB SSD	512GB to 2TB SSD
Operating System	Microsoft® Windows® 11 IoT Enterprise			
NIST Compliance	NIST Compliant BIOS Available			
Buttons	1 x Power Button, 2 x Programmable Buttons, 2 x Brightness Control Buttons, 1 x NVIS/Normal Toggle			1 x Power Button, 4 x Programmable Touch Buttons
Microphone	Built-In Microphone	Built-In Microphone	Built-In Microphone	Built-In Microphone
Speaker	Built-In Speaker	Built-In Speaker	Built-In Speaker	Built-In Speaker

Display

Screen Size	11.6" Touchscreen; 16.7M Colors	13.3" Touchscreen; 16.7M Colors	15.6" Touchscreen; 16.7M Colors	15.6" High-Brightness (1200 nits) Touchscreen
Resolution	1920 x 1080	1920 x 1080	1920 x 1080, or 3840 x 2160 (optional)	1920 x 1080
Luminance	Standard High-Brightness (1000 nits)	Standard High-Brightness (1000 nits)	Standard High-Brightness (1000 nits)	Standard High-Brightness (1200 nits)
	Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 20 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with naked eyes in dark environments and does not interfere with NVGs.			
	Optional night vision screen – daylight mode: 800 nits; NVIS mode: 0 to 0.7 nits. MIL-STD-3009 Class B compliant, providing clear readability of the display with NVGs in dark environments.			
Optical Response Time	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)

Keyboard

Keys	QWERTY, full row of F1 to F12 function keys. Keys for Windows shortcuts, media controls, screen brightness			
Backlight	Yes	Yes	Yes	Yes
Touchpad	Multi-Touch	Multi-Touch	Multi-Touch	Multi-Touch

Wireless Network Interface

WLAN	Wi-Fi 802.11ax, 2.4/5 GHz Dual Band	Wi-Fi 802.11ax, 2.4/5 GHz Dual Band	Wi-Fi 802.11ax, 2.4/5 GHz Dual Band	Wi-Fi 802.11ax 2.4/5/6 Ghz three band
BT	5.2	5.2	5.2	5.2

I/O Ports

USB Port	2 xUSB 3.0, 1 x latest USB/charging			3 x USB-A
Ethernet	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN
COM Port	N/A	1	1	1
HDMI-out	1	1	1	1
Audio Jack	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)
DC-In	1	1	1	1
SD Card Reader	N/A	N/A	1	1
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card			
Kensington Lock	1	1	1	1

Mechanical and Environmental

AC/DC Adapter		Input: 100 to 240V AC; Output: 19V DC, 3.42A		Input: 100 to 240V AC; Output: 19V, 230W Adapter
Battery Pack	1 x Hot-Swappable Battery (11.4V, 5400mAh)	2 x Hot-Swappable Battery (11.4V, 5400mAh)		
	1 x Hot-Swappable battery (11.4V, 8000mAh) (Optional)	2 x Hot-Swappable Battery (11.4V, 8000mAh) (Optional)		
Enclosure		ABS + PC Plastic & Magnesium-Aluminum Alloy with Antimicrobial Coating		
Dimensions (H x W x D)	1.7 x 12.8 x 10.6 in/43 x 326 x 268 mm	1.41 x 13.82 x 9.84 in/35.74 x 351 x 250 mm	1.41 x 15.16 x 10.57 in/ 35.8 x 385 x 268.5 mm	1.66 x 15.16 x 10.57 in/ 42.05 x 385 x 268.5 mm
Weight	6.3 lbs/2.86 kg	7.5 lbs/3.4 kg	8.95 lbs/4.06 kg	9.70 lbs/4.4 kg
Durability	IP65, MIL-STD-810H and MIL-STD-461G Certified			
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing Regulatory	Yes	Yes	Yes	Yes
Temperature	FCC Class B, CE, RoHS Compliant			
Humidity	Operation: -10°C to 60°C (14°F to 140°F), Optional -30°C to 60°C (-22°F to 140°F) Storage: -55°C to 70°C (-67°F to 158°F) 0% to 90% Non-Condensing			

Major Options

Camera	Front Full-HD Camera with Auto White Balance and Gain/Exposure Control			N/A
Mobile Broadband	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS
Graphics Card	N/A	N/A	N/A	Embedded MXM GPU Module with Embedded NVIDIA RTX™ A1000 or A2000 MXM
GNSS	GPS	GPS	GPS	N/A

* Specifications subject to change without notice



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