



## Rugged Convertible Laptop

### Compact, Purpose-Built for Mission-Critical Environments

The DT Research Rugged Convertible Laptops feature the integration of convertible touch screens, 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 supported
- Convertible screen to transform from laptop to tablet
- Intel® Core™ i5/i7 processor
- Microsoft® Windows® 11 IoT Enterprise operating system
- Backlit keyboard with multi-touch pad
- 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
- Embedded NVIDIA RTX™ A1000 or A2000 MXM graphics card(LT355)

# Specifications



Model	LT320	LT330	LT350	LT355
<b>System</b>				
<b>CPU</b>	Intel® Core™ i5-10210U, 4-Core, 1.6 GHz (up to 4.2 GHz) 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
<b>RAM</b>	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)
<b>Storage</b>	256GB to 4TB SSD (dual-slot, supports quick release and RAID 0/RAID 1)			64GB to 2TB SSD (Supports Removable SSD and RAID)
<b>Operating System</b>	Microsoft® Windows® 11 IoT Enterprise			
<b>NIST Compliance</b>	NIST Compliant BIOS Available			
<b>Buttons</b>	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
<b>Microphone</b>	Built-In Microphone	Built-In Microphone	Built-In Microphone	Built-In Microphone
<b>Speaker</b>	Built-In Speaker	Built-In Speaker	Built-In Speaker	Built-In Speaker
<b>Display</b>				
<b>Screen Size</b>	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
<b>Resolution</b>	1920 x 1080 Standard High-Brightness (1000 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.	1920 x 1080 Standard High-Brightness (1000 nits)	1920 x 1080, or 3840 x 2160 (optional) Standard High-Brightness (1000 nits)	1920 x 1080 Standard High-Brightness (1200 nits)
<b>Luminance</b>	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.			
<b>Optical Response Time</b>	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)
<b>Keyboard</b>				
<b>Keys</b>	QWERTY, full row of F1 to F12 function keys. Keys for Windows shortcuts, media controls, screen brightness			
<b>Backlight</b>	Yes	Yes	Yes	Yes
<b>Touch Pad</b>	Multi-Touch	Multi-Touch	Multi-Touch	Multi-Touch
<b>Wireless Network Interface</b>				
<b>WLAN</b>	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
<b>BT</b>	Yes	Yes	Yes	Yes
<b>I/O Ports</b>				
<b>USB Port</b>	USB 3.0 x 2, USB Type-C x 1 (for data transmitting, video-out, and charging)			3 x USB-A
<b>Ethernet</b>	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
<b>COM Port</b>	N/A	1	1	1
<b>HDMI-out</b>	1	1	1	1
<b>Audio Jack</b>	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)
<b>DC-In</b>	1	1	1	1
<b>SD Card Reader</b>	N/A	N/A	1	1
<b>Smart Card/CAC Reader</b>	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card			
<b>Kensington Lock</b>	1	1	1	1
<b>Mechanical and Environmental</b>				
<b>AC/DC Adapter</b>	Input: 100-240V AC; Output: 19V DC, 3.42A			Input: 100-240V AC; Output: 19V, 230W Adapter
<b>Battery Pack</b>	1 x Hot-Swappable Battery (11.4V, 5400mAh) 1 x Hot-Swappable battery (11.4V, 8000mAh) (Optional)	2 x Hot-Swappable Battery (11.4V, 5400mAh) 2 x Hot-Swappable Battery (11.4V, 8000mAh) (Optional)		
<b>Enclosure</b>	ABS + PC Plastic & Magnesium-Aluminum Alloy with Antimicrobial Coating			
<b>Dimensions (H x W x D)</b>	1.7 x 12.8 x 10.6 in/43 x 326 x 268 mm	1.7 x 13.8 x 11 in/43 x 351 x 280 mm	1.9 x 15.2 x 11.7 in/48 x 385 x 297 mm	2.1 x 15.2 x 11.7 in/54.4 x 385 x 297 mm
<b>Weight</b>	6.3 lbs/2.86 kg	7.5 lbs/3.4 kg	8.95 lbs/4.06 kg	9.70 lbs/4.4 kg
<b>Durability</b>	IP65, MIL-STD-810H and MIL-STD-461G Certified			
<b>Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing Regulatory</b>	Yes	Yes	Yes	Yes
<b>Temperature</b>	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)			
<b>Humidity</b>	0% to 90% Non-Condensing			
<b>Major Options</b>				
<b>Camera</b>	Front Full-HD Camera with Auto White Balance & Gain/Exposure Control			N/A
<b>Mobile Broadband</b>	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS
<b>Graphics Card</b>	N/A	N/A	N/A	Embedded MXM GPU Module with Embedded NVIDIA RTX™ A1000 or A2000 MXM

\* Specifications subject to change without notice.

