



## 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 or Core™ Ultra processors, and full-size keyboards. They feature built-in Wi-Fi, BT, optional 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™ i or Core™ Ultra processor
- Microsoft® Windows® 11 IoT Enterprise operating system
- Backlit keyboard with multi-touchpad
- Fanless, robust design with antimicrobial coating
- 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
- 2MP IR camera(LT360PA)



### Major Options

- 4K resolution screen (LT350/LT360PA)
- MIL-STD-3009 class B night vision screen
- 5MP front Full-HD camera
- 4G LTE/AWS
- GPS module (LT320/LT330/LT350/LT360PA)
- Embedded NVIDIA RTX™ graphics card (LT355)
- 2D barcode scanner (LT360PA)
- CAC card reader (LT360PA)
- Additional 1x latest USB/charging and 1x RJ45, or SFP connector or 24-pin Fischer connector (LT360PA)

# Specifications



Model	LT320	LT330	LT360PA
<b>System</b>			
<b>CPU</b>	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™ Ultra 5 processor 225H, 14-core up to 4.9 GHz Intel® Core™ Ultra 7 processor 255H, 16-core up to 5.1 GHz
<b>RAM</b>	8GB to 64GB (dual-slot)	8GB to 64GB (dual-slot)	Ultra 5: 16GB LPDDR5 Ultra 7: 16GB to 32GB LPDDR5
<b>Storage</b>	512GB to 2TB SSD	512GB to 2TB SSD	512GB to 2TB SSD
<b>Operating System</b>	Microsoft® Windows® 11 IoT Enterprise		
<b>NIST Compliance</b>	NIST compliant BIOS available		
<b>Smart Card/CAC Reader</b>	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card		Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card (optional)
<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, 1 x 2D scanner or NVIS mode trigger button, 2 x brightness touch buttons, 2 x programmable touch buttons
<b>Microphone</b>	Built-in microphone	Built-in microphone	Built-in microphone array
<b>Speaker</b>	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	13.3" touchscreen
<b>Resolution</b>	1920 x 1080	1920 x 1080	1920 x 1080, or 3840 x 2160 (optional)
<b>Luminance</b>	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 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)
<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
<b>Touchpad</b>	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 2.4/5/6 Ghz three band
<b>BT</b>	5.2	5.2	5.4
<b>I/O Ports</b>			
<b>USB Port</b>	2 xUSB 3.0 , 1 x latest USB/charging		2 x USB-A, 1 x latest USB/charging (optional: additional 1 x latest USB/charging)
<b>Ethernet</b>	Ethernet 10/100/1000 MB Base-T LAN	Ethernet 10/100/1000 MB Base-T LAN	1 x 10/100/1000 MB Base-T RJ45 LAN (optional: additional 1 x RJ45)
<b>COM Port</b>	N/A	1	N/A
<b>HDMI-out</b>	1	1	1
<b>Audio Jack</b>	1 (3.5 mm)	1 (3.5 mm)	1 (3.5 mm)
<b>DC-in Jack</b>	1	1	1
<b>SD Card Reader</b>	N/A	N/A	1
<b>Nano SIM Card Slot</b>	N/A	N/A	1
<b>Mechanical and Environmental</b>			
<b>AC/DC Adapter</b>	Input: 100 to 240V AC; Output: 19V DC, 3.42A		Input: 100 to 240V AC; Output: 19V, 230W
<b>Battery Pack</b>	1 x Hot-swappable battery (11.4V, 5400mAh) (Optional) 1 x Hot-swappable battery (11.4V, 8000mAh)	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)
<b>Enclosure</b>	ABS + PC plastic and 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	1.41 x 13.82 x 9.84 in/35.74 x 351 x 250 mm	1.22 x 13.66 x 9.84 in/31 x 347 x 250 mm
<b>Weight</b>	6.3 lbs/2.86 kg	7.5 lbs/3.4 kg	6.21lbs/2.82 kg (with battery)
<b>Durability</b>	IP65, MIL-STD-810H and MIL-STD-461G certified		
<b>Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing</b>	Yes	Yes	Yes
<b>Regulatory</b>	FCC Class B, CE, RoHS compliant		CE, FCC Class B, CB, RCM, EPEAT, Energy Star 8.0
<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>Kensington Lock</b>	1	1	1
<b>Major Options</b>			
<b>Camera</b>	5 MP front Full-HD camera with auto white balance and gain/exposure control		2 MP IR camera with privacy cover; supports Windows Hello (default)
<b>Mobile Broadband</b>	4G LTE/AWS	4G LTE/AWS	4G LTE/AWS
<b>Graphics Card</b>	N/A	N/A	N/A
<b>GNSS</b>	GPS	GPS	GPS
<b>RFID Reader</b>	N/A	N/A	Dual frequency (reads 125 KHz and 13.56 MHz credentials)
<b>Barcode Scanner</b>	N/A	N/A	2D barcode scanner (reads 1D and 2D)

\* Specifications subject to change without notice.

# Specifications



Model	LT350	LT355
<b>System</b>		
CPU	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)
Storage	512GB to 2TB SSD	512GB to 2TB SSD
Operating System	Microsoft® Windows® 11 IoT Enterprise	
NIST Compliance	NIST compliant BIOS available	
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card	
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
Speaker	Built-in speaker	Built-in speaker
<b>Display</b>		
Screen Size	15.6" touchscreen; 16.7M colors	15.6" high-brightness 1200 nits touchscreen
Resolution	1920 x 1080, or 3840 x 2160 (optional) Standard high-brightness 1000 nits	1920 x 1080 Standard high-brightness 1200 nits
Luminance	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)
<b>Keyboard</b>		
Keys	QWERTY, full row of F1 to F12 function keys; Keys for Windows shortcuts, media controls, screen brightness	
Backlight	Yes	Yes
Touchpad	Multi-touch	Multi-touch
<b>Wireless Network Interface</b>		
WLAN	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
<b>I/O Ports</b>		
USB Port	2 x USB 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
COM Port	1	1
HDMI-out	1	1
Audio Jack	1 (3.5 mm)	1 (3.5 mm)
DC-in Jack	1	1
SD Card Reader	1	1
<b>Mechanical and Environmental</b>		
AC/DC Adapter	Input: 100 to 240V AC; Output: 19V DC, 3.42A	Input: 100 to 240V AC; Output: 19V, 230W adapter
Battery Pack	2 x Hot-swappable batteries (11.4V, 5400mAh) (Optional) 2 x Hot-swappable batteries (11.4V, 8000mAh)	
Enclosure	ABS + PC plastic & magnesium-aluminum alloy with antimicrobial coating	
Dimensions (H x W x D)	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	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	Yes	Yes
Regulatory	FCC Class B, CE, RoHS compliant	
Temperature	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)	
Humidity	0% to 90% non-condensing	
Kensington Lock	1	1
<b>Major Options</b>		
Camera	5 MP front full-HD camera with auto white balance and gain /exposure control	N/A
Mobile Broadband	4G LTE/AWS	4G LTE/AWS
Graphics Card	N/A	Embedded MXM GPU module with Embedded NVIDIA RTX™ A1000 or A2000 MXM
GNSS	GPS	N/A

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