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LT330 Rugged Convertible Laptop

Compact, Purpose-Built for Mission-Critical Environments

The DT Research LT330 Rugged Convertible Laptop features the integration of a convertible touchscreen, an Intel® Core™ 12th Gen i7/i5 processor, and a full-sized keyboard. With a built-in smart card/CAC reader as well as optional IR/RGB front cameras for facial recognition, this laptop provides 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 and MIL-STD-810G, and supporting a wide temperature range, the LT330 Convertible Rugged Laptop provides reliable operation in harsh, mission-critical environments.





Features

- 13.3" high-brightness (1000 nits) touchscreen; digital pen supported
- Convertible screen to transform from laptop to tablet
- Intel® Core™ 12th Gen i7/i5 processor
- Microsoft® Windows® 10/11 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-810G/H for shock and vibration protection
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified
- Energy Star 8.0 certified

Major Options

- GPS module
- MIL-STD-3009 class B Night Vision screen
- Front Full-HD camera
- 4G LTE/AWS

Specifications



Model	LT330
System	
CPU	Intel® Core™ 12th Gen i7-1260P, 12-Core, up to 4.7 GHz Intel® Core™ 12th Gen i5-1240P, 12-Core, up to 4.4 GHz
RAM	8GB to 64GB (dual-slot)
Storage	256GB to 4TB SSD (dual-slot, supports quick release and RAID 0/RAID 1)
Operating System	Microsoft® Windows® 10/11 IoT Enterprise
NIST Compliance	NIST Compliant BIOS Available
Buttons	1 Power Button, 2 Programmable Buttons, 2 Brightness Control Buttons, 1 NVIS/Normal Toggle
Microphone	Built-In Microphone
Speaker	Built-In Speaker
Display	
Screen Size	13.3" Touchscreen; 16.7M Colors
Resolution	1920 x 1080
Luminance	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.
Contrast Ratio	800 (Typical)
Optical Response Time	25 msec (Typical)
Keyboard	
Keys	QWERTY, full row of F1 to F12 function keys Keys for Windows shortcuts, media controls, screen brightness
Backlight	Yes
Touch Pad	Multi-Touch
Wireless Network Interface	
WLAN	Wi-Fi 802.11ax, 2.4/5 GHz Dual Band
I/O Ports	
USB Port	USB 3.0 x 2, USB Type-C x 1 (for data transmitting, video-out, and charging)
Ethernet	Ethernet 10/100/1000 MB Base-T LAN
COM Port	1
HDMI-out	1
Audio Jack	1 (3.5 mm)
DC-in	1
SD Card Reader	N/A
Smart Card/CAC Reader	Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card
Kensington Lock	1
Mechanical and Environmental	
AC/DC Adapter	Input: 100-240V AC; Output: 19V DC, 3.42A
Battery Pack	2 x Hot-Swappable Battery (11.4V, 5400mAh) 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 13.8 x 11 in/43 x 351 x 280 mm
Weight	7.5 lbs/3.4 kg
Durability	IP65 & MIL-STD-810G Certified
Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing	Yes
Regulatory	CE, FCC Class B, EPEAT Bronze, Energy Star Approved ,RoHS Compliant, TAA 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% – 95% Non-Condensing
Major Options	
Camera	Front Full-HD Camera with Auto White Balance & Gain/Exposure Control
Mobile Broadband	4G LTE/AWS
GNSS Module	GPS Module with Concurrent Reception of GPS and GLONASS; Industry Leading - 167dBm Navigation Sensitivity
Night Vision Screen	MIL-STD-3009 class B Night Vision screen

* Specifications subject to change without notice.

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