



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 and MIL-STD-810H, 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
- 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)

Specificati	ons 🔛				
Model	LT320	LT330	LT350	LT355	
System					
СРО	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)		12-Core, up to 4.4 GHz 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	256GB to 4TI	256GB to 4TB SSD (dual-slot, supports quick release and RAID 0/RAID 1)64GB to 2TB SSD (Supports Removable SSD and RAID)			
Operating System NIST Compliance	Microsoft® Windows® 11 IoT Enterprise NIST Compliant BIOS Available				
Buttons	1 x Power Button, 2 x Progra	mmable Buttons, 2 x Brightness Control Buttons, 1 x NVIS/Normal Toggle			
Microphone	Built-In Microphone	Built-In Microphone	Built-In Microphone	Buttons 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)	
	1920 x 1080			Touchscreen	
Resolution	Standard High-Brightness (1000 nits)		1920 x 1080, or 3840 x 2160 (optional) Standard High-Brightness (1000 nits) -3009 Class B compliant, providing clear read not interfere with NVGs.	1920 x 1080 Standard High-Brightness (1200 nits) dability of the display with naked eyes in dark	
	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 environment				
Optical Response Time	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)	
Keyboard					
Keys		r, full row of F1 to F12 function keys. Keys for		-	
Backlight Touch Pad	Yes	Yes	Yes	Yes	
Wireless Network Inte	Multi-Touch	Multi-Touch	Multi-Touch	Multi-Touch	
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	Yes	Yes	Yes	Yes	
I/O Ports					
USB Port	USB 3.0 x 2, US	B Type-C x 1 (for data transmitting, video-out	t, and charging)	3 x USB-A	
Ethernet COM Port	Ethernet 10/100/1000 MB Base-T LAN N/A	Ethernet 10/100/1000 MB Base-T LAN 1	Ethernet 10/100/1000 MB Base-T LAN 1	Ethernet 10/100/1000 MB Base-T LAN 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 Enviro	onmental				
AC/DC Adapter		Input: 100-240V AC; Output: 19V DC, 3.42A		Input: 100-240V AC; Output: 19V, 230W Adapter	
Battery Pack	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)			
Enclosure	()	ABS + PC Plastic & Magnesium-Alum	inum 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	1.7 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	
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 Hazard of Electromagnetic		IP65 & MIL-STI	D-810H Certified		
Radiation to Ordnance (HERO) Testing	Yes	Yes	Yes	Yes	
Regulatory	FCC Class B, CE, RoHS Compliant Operation: -10°C to 60°C (14°F to 140°F), Optional -30°C to 60°C (-22°F to 140°F)				
Temperature	Storage: -55°C to 70°C (-67°F to 158°F)				
Humidity	0% to 90% Non-Condensing				
Major Options					
Camera Mobile Broadband	Front Full-HD 4G LTE/AWS	Camera with Auto White Balance & Gain/Exp 4G LTE/AWS	oosure Control 4G LTE/AWS	N/A 4G LTE/AWS	
Graphics Card	N/A	N/A	N/A	Embedded MXM GPU Module with Embedded NVIDIA RTX™ A1000 or A2000	
				MXM	