



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)

Specificati	ons 🚺	6	6	()
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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, Intel [®] Core™ i7-1260P,		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 1 x Power Button, 4 x Programmable Touc			
Buttons	1 x Power Button, 2 x Progra	ammable Buttons, 2 x Brightness Control Butto	ons, 1 x NVIS/Normal Toggle	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)
Resolution	1920 x 1080	1920 x 1080	1920 x 1080, or 3840 x 2160 (optional)	Touchscreen 1920 x 1080
Luminance	Standard High-Brightness (1000 nits)	Standard High-Brightness (1000 nits) de: 800 nits; NVIS mode: 0 to 20 nits. MIL-STD- environments and does	Standard High-Brightness (1000 nits) 3009 Class B compliant, providing clear read	Standard High-Brightness (1200 nits)
	Optional night vision screen – daylight mode:	800 nits; NVIS mode: 0 to 0.7 nits. MIL-STD-3009	9 Class B compliant, providing clear readability	y of the display with NVGs in dark environments
Optical Response Time Keyboard	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)	25 msec (Typical)
	OWERT	Y, full row of F1 to F12 function keys. Keys for	Mindous chartauta madia controla caroon	hrishtnass
Keys Backlight	Yes	Yes	Yes	Yes
Touchpad	Multi-Touch	Multi-Touch	Multi-Touch	Multi-Touch
Wireless Network Inte				
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
ВТ	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 N/A	1 N/A	1	1
SD Card Reader Smart Card/CAC Reader	N/A		0, T=1; 1.8/3/5V smart card	1
Kensington Lock	1 1 1 1 1			
Mechanical and Envir	onmental			Input: 100 to 240V AC; Output: 19V, 230W
AC/DC Adapter		Input: 100 to 240V AC; Output: 19V DC, 3.42A		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-Alumi	num 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	1.41x13.82x9.84 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	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 and 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 A200 MXM
GNSS	GPS	GPS	GPS	N/A
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 2000 Concourse Drive, San Jose, CA 95131

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