



# E320/E320X/E320XL Rugged Convertible Laptop

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

The Peacemaker Technologies Rugged Convertible Laptops feature the integration of convertible touch screens, Intel®  $10^{th}$  Generation 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-810G/H, MIL-STD-461F, 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" capacitive screen, 1000 nits and digital pen support
- Convertible screen, transforms from laptop to tablet
- Intel® 10<sup>th</sup> Generation Core™ i5/i7 processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- Backlit keyboard with multi-touch pad
- · Fanless, robust design
- 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
- Anti-microbial coating
- IP65-rated for water and dust resistance
- MIL-STD-810G/H for shock and vibration protection
- MIL-STD-461F 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

# **Specifications**







Popular	Model	E320	E320X	E320XL
	System			
Part	CPU			
Contract Ratio				8GR to 64GR (dual-slot)
			,	. ,
NIST compliance   NIST compl				
Section   1.00		•		
Microphone   Bulli-in microphone   Bulli-in microphone   Bulli-in microphone   Bulli-in speakers   Bulli	•	1 nower hutton 2 r	'	VIS/Normal toggle
Display				
	•	·	·	·
11.6" screen with capacitive touch, 16.7M colors   13.3" screen with capacitive touch, 16.7M colors   15.6" screen with capacitive touch, 16.7M colors   15.00 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1210 x 1080   15.00 x 1080, or 18.00 x 1080 x				24.00
Secolution   1920 x 1080   1920 x 1080 x 1080 x 1080   1920 x 1080 x 1	• •	11.6" screen with capacitive touch 16.7M colors	12.2" screen with capacitive touch 16.7M colors	15.6" screen with canacitive touch 16.7M cold
Standard sunlight readable screen: 1000 nits   Optional night vision screen - daylight mode: 800 nits; NVS mode: 0 to 20 nits; MISS mode: 0 to 20 nits; M				·
Optional night vision screen—daylight mode: 800 nits; NVIS mode: 0 to 20 nits, MIL :T30-2000 Class B compliant, providing clear readability of the display with naked eyes in dark environments in and does not intervit him NVSs. Optional night vision screen—daylight mode: 800 nits; NVIS mode: 0 to 0.7 nits, MIL :T30-2000 Class B compliant, providing clear readability of the display with naked eyes in an area of the environments. NVIS in date environments. NVIS in date environments. NVIS in date environments. See the environments of the environments of the environments. NVIS in date	Resoluπon			
Contrast Ratio   800 (typical)   800 (typical)   25 mscc (typica	uminance	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		
Partical Response Time   25 msec (typical)	Contrast Ratio	800 (typical)		800 (typical)
Comparison   Com		.,,	.,,	.,,
West				
Keys for Windows shortcuts, media controls, screen brightness   Keys for Windows shortcuts, media controls, multi-touch   Mult	•		OWERTY, full row of F1 to F12 function keys	
Multi-touch	Keys	K		S
Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band   Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band   Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band   Bluetooth 5.1   B	Backlight	Yes	Yes	Yes
Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band   Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band   Bluetooth   Bluetooth   Bluetooth   Bluetooth   Bluetooth 5.1   Bluetooth 5.1   Bluetooth 5.1   Bluetooth 5.1	ouch Pad	Multi-touch	Multi-touch	Multi-touch
Bluetooth   Blue	Wireless Network Interface			
	WLAN	Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band	Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band	Wi-Fi 802.11ax, 2.4GHz/ 5GHz dual band
USB 3.0 x 2, USB Type-C x 1	Bluetooth	Bluetooth 5.1	Bluetooth 5.1	Bluetooth 5.1
Composition	I/O Ports			
Ethernet	USB Port	USB 3.0 x 2, USB Type-C x 1 (for data transmitting, video-out, and charging)		
Audio Jack	Ethernet			
Audio Jack 1 (3.5mm) 1 (3.	COM Port	N/A	1	1
Color	IDMI-out	1	1	1
Color	Audio Jack	1 (3.5mm)	1 (3.5mm)	1 (3.5mm)
Smart Card/CAC Reader Kensington Lock 1 1 1 1 1 1 Mechanical and Environmental  AC/DC Adapter Binput: 100-240V AC; Output: 19V DC, 3.42A Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 2 Enclosure Dimensions (H x W x D)  1.5 x 12.5 x 9.3 in / 39.2 x 320 x 235 mm 1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm 1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  Neight 6.3 lbs/ 2.86 kg 7.5 lbs/ 3.4 kg 8.95 lbs/ 4.06kg Durability Hazard of Electromagnetic Radiation or Ordnance (HERO) Testing 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) Storage: -55°C to 70°C (-67°F to 158°F) Humidity  Omensions (H x W x D)  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm 1.5 x 14.8 x 1		· · ·		
Semant Card/CAC Reader  Kensington Lock  1 1 1 1 1 1 1 1 Mechanical and Environmental  AC/DC Adapter  Binput: 100-240V AC; Output: 19V DC, 3.42A  Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 2 Enclosure  ABS + PC plastics and magnesium-aluminum alloy with anti-microbial coating  Dimensions (H x W x D)  1.5 x 12.5 x 9.3 in / 39.2 x 320 x 235 mm 1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm 1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  Neight  6.3 lbs/ 2.86 kg 7.5 lbs/ 3.4 kg 8.95 lbs/ 4.06kg  Durability Hazard of Electromagnetic Radiation or Ordnance (HERO) Testing 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) Storage: -55°C to 70°C (-67°F to 158°F)  Humidity  Omensions (Headed Total Advance of the content of th		N/A	N/A	1
Mechanical and Environmental  AC/DC Adapter  Battery Pack Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 2 Enclosure Dimensions (H x W x D)  Meight  6.3 lbs/ 2.86 kg  7.5 lbs/ 3.4 kg  8.95 lbs/ 4.06kg  Durability Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing Regulatory  Femperature  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 (-6°F to 158°F) Humidity  Input: 100-240V AC; Output: 19V DC, 3.42A Hot swappable battery, 11.4V,5400mAh x 2 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,5400mAh x 2 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable batte		,	,	
AC/DC Adapter  Bittery Pack  Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,8000mAh (optional) x 1 Hot swappable battery, 11.4V,5400mAh x 2 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x	•	1		1
Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 2 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh x 1 Hot swappable battery, 11.4V,5400mAh	Mechanical and Environment	tal		
Hot swappable battery, 11.4V,8000mAh (optional) x 1  ABS + PC plastics and magnesium-aluminum alloy with anti-microbial coating  Dimensions (H x W x D)  1.5 x 12.5 x 9.3 in / 39.2 x 320 x 235 mm  1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  Weight  Ourability  Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing  Regulatory  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  Hot swappable battery, 11.4V,8000mAh (optional) x 2  Hot swappable battery, 11.4V,8000mAh (optional) x 2  ABS + PC plastics and magnesium-aluminum alloy with anti-microbial coating  1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 13.6 x 9.7 in / 39.2 x 345 x 247 mm  1.5 x 14.8 x 10.5 in / 39.2 x 376 x 265.5 mm  1.5 x 14.8 x 1	AC/DC Adapter		Input: 100-240V AC; Output: 19V DC, 3.42A	
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Weight 6.3 lbs/ 2.86 kg 7.5 lbs/ 3.4 kg 8.95 lbs/ 4.06kg  Durability Alexard of Electromagnetic Radiation to Ordnance (HERO) Testing Regulatory 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  8.95 lbs/ 4.06kg 9.95 lbs/ 4.06kg			,	·
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Yes	-	5.5 .55, 2.55 Ng		5.55 .657 F.00Ng
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) Storage: -55°C to 70°C (-67°F to 158°F)  Humidity  O% – 95% non-condensing	lazard of Electromagnetic Radiation	Yes		Yes
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  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)  O% – 95% non-condensing			FCC Class B. CF. RoHS compliant	
Demperature         Storage: -55°C to 70°C (-67°F to 158°F)           Humidity         0% – 95% non-condensing		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)	
Major Options Control of the Control	•		u% − 95% non-condensing	
	Major Options			

4G LTE/AWS

Mobile Broadband

4G LTE/AWS



4G LTE/AWS

<sup>\*</sup> Specifications subject to change without notice.