Specification

EXTREME Environment	**Gunfire Shock:** MIL-STD 810G Method 519.6, Annex D, Table 519.6D-I	
	Hazardous Shock: MIL-STD 810G Method 516.6 Procedure V, 75G's @8ms, 3 shocks/axis/direction, total 18 shocks	
	Helicopter Integrity: MIL-STD 810G, Method 514.6, Procedure I, Category 24, Fig. 514.6E-2	
	Blowing Rain: MIL-STD 810G, Method 506.5, Procedure II,30 Minutes, 70MPH	
	Blowing Dust: MIL-STD 810G, Method 510.5 Procedure I, Air Flow 1725 FPM, (23°C~60°C for 12 hours)	
	Explosive Atmosphere: MIL-STD 810G Method 511.5, Procedure I	
	Freeze Thaw: MIL-STD 810G, Method 524, Procedure III	
	Acidic Atmosphere: MIL-STD 810G, Method 518.1	
	Solar Radiation: MIL-STD 810G, Method 505.5, Procedure II	
	Salt Fog: MIL-STD 810G, Method 509.5	
	Military EMC: MIL-STD 461F Level II	
IP65	**IPx5:** IEC 529 (EN6052)	
	IP6X: IEC 529 (EN60529)	
Rugged Features	**Drop:** MIL-STD 810G 516.6 Procedure IV, 26 drops from 4 feet height onto plywood over concrete	
	Vibration General Integrity: MIL-STD 810G, Method 514.6, Procedure I, Category 24, Fig. 514.6E-1	
	Vibration Truck Transport: ASTM 4169, 11.5.2 Random test, Assurance Level II	
	Functional Shock: MIL-STD 810G Method 516.6 Procedure I 40G's @11ms, 3 shocks/axis/direction 18 total shocks	
	Rain Test: MIL-STD 810G, Method 506.4, Procedure II, 40 PSIG, min 6 axis, 4 in/hour	
	Temperature Shock: MIL-STD810G, Method 503.5, Procedure I-C	
Environment	• **Temperature** - Operating: -30°C~ 60°C MIL-STD 810G 501.5 Procedure II - Storage: -51°C~ 71°C MIL-STD 810G 501.5 / 502.5 Procedure I	
	• **Humidity** - Operating: 5% ~ 95%	
	• **Altitude** - Operating: 15,000 feet MIL-STD 810G 500.5 Procedure II - Non Operating: 35,000 feet MIL-STD 810G 500.5 Procedure I	

Operating System	• Genuine Windows 7 Professional[1]
	• Genuine Windows XP Professional[1]
CPU	• Intel® Core™ i7 series
Display	• 13.3" XGA(1024x768) TFT LCD
	• Resistive Touch Panel
	• Sunlight Readable 600 nits Display
Memory	• Two DDRIII sockets (Max. 16GB)
Storage	• 2.5" SATA HDD or SSD
Optical Disk Drive	• DVD Super Multi
Keyboard	• Illuminated keyboard with adjustable brightness
Audio	• Intel High Definition Audio
	• 1.5KHz Speaker x 2 / 75dB
	• Analog Microphone
Communication	• One 10/100/1000 Mbps Ethernet
	• Intel® Wireless-N 6235 (802.11 a/b/g/n)[1]
	• Bluetooth 4.0[1]
	• 3G or LTE WWAN[1]
	• GPS[1]
Security	• Smart Card Reader[1]
	• Computrace® Ready
	• Intel ®vPro
	• TPM 1.2
	• Kensington Lock
	• Stealth Mode
	• Fingerprint Scanner
	• Quick Release HDD
Button	• Power
	• RF ON / OFF
	• Programmable button x1
Expansion Slots	• One PC card Type II slot[1]
	• One Express Card 54/34 slot or Smart Card Reader[1]
I/O Ports	• Three USB2.0
	• One USB3.0
	• One headphone jack
	• One microphone jack
	• One RJ-45
	• One VGA port
	• One RS232 port
	• One Docking connector
	• Two RF pass through for WWAN and GPS
	• One DC-In
Battery	• Primary 9-Cells 7800 mAh battery pack: 8 hrs[3]
	• 6-Cells 3800 mAh battery pack[1,4]: 4 hrs[3]
AC Adaptor	• 100V - 240V; 90W
Dimension	• 306 mm (W) x 294 mm (D) x 58~65 mm (H)
Weight	• 3.6 Kg / 7.9 lbs[5] : 3.6 Kg / 7.9 lbs[5]

Accessories

Vehicle Dock

1. Optional items
2. With extended temperature SSD or HDD heater
3. Mobile Mark Life Test Method (Battery life may vary with product configurations, settings, usage patterns and operating environment.)
4. 6 cell battery pack is mutually exclusive with Optical Disk Drive
5. Actual weight may vary with different configurations

DURABOOK
Mobile Systems

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R8300

13" Fully-Rugged Notebook

R8300

Extreme Environment

Designed for extreme environments and "combat-ready", R8300 can operate from land to sea, from scorching deserts to freezing terrains, and from stealth mission to the heart of combat zone. Meet the following vigorous environments and conditions, R8300 has the highest design quality to ensure peace of mind when operating any critical mission and task.

- Gunfire shock
- Hazardous Shock
- Helicopter Integrity
- Blowing Rain
- Blowing Dust
- Explosive Atmosphere
- Solar Radiation
- Salt Fog
- MIL-STD 461F Level II

Exceptional Outdoor Display

Equipped with a 13.3" TFT LCD (1024 x 768) screen with 600 nits sunlight readable resistive touch panel, R8300 offers excellent screen viewing even under direct sunlight. Power consumption is greatly reduced and efficiency increased by enhancing contrast ratios, anti-reflection, anti-glare and polarization.

Quick Release HDD

The Quick Release HDD module allows for less than 5-second ejection of disk drive in a situation when protecting valuable data from falling into the wrong hands is top priority.

Trusted Performance

Capable of handling multiple tasks at the same time with Intel® Core™ i7 mobile processor, R8300 optimizes performance for all kinds of data processing and video streaming.

Magnesium Alloy Chassis

The entire R8300 chassis is built with lightweight Magnesium Alloy, 20 times stronger than ABS plastic, offering superior resistance to external impacts, shocks and vibrations, while providing excellent thermal dispersion at the same time.

Long Battery Life with Fast Charge

Powered by High-Capacity, 9-cell Smart Battery Pack for up to 8 hours, the R8300 can be quick-charged up to 90% of the capacity within merely 3 hours.

merely 3hr 90%

Hot Swappable Second Battery

The optional 6-Cell Second Battery further extends the battery power to 12 hours. Equipped with quick release and hot swappable function, the second battery can be easily removed and hot-swapped in no time without interrupting computing tasks.

*Second battery is mutually exclusive with Optical Disk Drive.

Secured Dual Battery Lock

The Secured Dual Battery Lock prevents the battery from disengaging during vigorous vibration like Gunfire Shock or operating in helicopter and ensures trouble-free in any mission critical tasks.

Communication

R8300 is equipped with all types of communication devices for seamless connectivity to WWAN, WLAN, LAN, Bluetooth and GPS. The built-in Ultra High Performance antennas ensure uninterrupted exchange of mission critical information under any environment and condition.

Security

Protected against unauthorized access to protected data, R8300 is equipped with highly secured Trusted Platform Module (TPM) chip. To prevent uncontrolled access, R8300 also incorporates multiple security technologies such as biometric fingerprint scanner, anti-theft, and user authentication for maximum security.

Stealth Mode

DURABOOK's unique Stealth Mode can be applied in special missions such as stakeout operation and raids. Stealth Mode immediately turns off all sounds and emitting lights including LCD, LED indicators, and backlit keyboard while all programs remain running in the background.