

DURABOOK

Prepared for the Unexpected



Introducing the DURABOOK Rugged Product Lineup

FOR THE MOST EXTREME AND HAZARDOUS ENVIRONMENTS.

Some environments require rugged products that can literally take a beating. When you need mobile computing solutions they can depend on in extreme environments, rugged is a must. Getting durability, performance and reliability in any environment and any condition is crucial. Built to meet the heightened needs of industry clients, DURABOOK's unmatched rugged product lineup has everything you need.

RUGGED FOR THE REAL WORLD.



DURABOOK INNOVATION. RUGGED DOMINATION.



Certified by independent third-parties for MIL-STD-810H and IP ratings, as well as ANSI/ISA 12.12.01 and MIL-STD-416G/416F.



Survived drop tests up to 6 feet (182 cm), rigorous vibration and impact protection tests.



Experience peak performance in extreme temperatures, whether in freezing cold up to -30°C or extreme hot temperatures of 60°C.



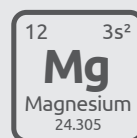
DynaVue® technology improves display clarity and 23% wider viewing angle, while the screen is designed and built at industrial class for outdoor weather and light conditions.



Leading rugged design to increase productivity and efficiency for any conditions.



Unsurpassed thermal solution for continuous work in mission-critical situations.



Designed from the ground up with high-performance materials for full protection.



Webcams with physical privacy shutters for additional protection, opened and closed with just one simple finger movement.

DURABOOK

DURABOOK is the core brand by Twinhead International Corporation. In 2000, the company manufactured its first military-grade rugged laptop, followed by the introduction of the DURABOOK brand in 2002. The DURABOOK line quickly expanded to meet the demands of customers in a broad range of markets that require rugged mobile solutions.

Today, rugged DURABOOK devices have a loyal customer base around the globe, including most branches of the U.S. Armed Forces, public safety agencies, numerous field service organizations, as well as companies that specialize in oil & gas, logistics, healthcare, utilities and automotive industries.

INNOVATION COMMITMENT SATISFACTION

From its founding in 1984, Twinhead International Corporation, now a public Taiwan company, has been a major supplier of computing devices for more than 35 years with commitment on developing products and solutions for the computer industry.

Innovative driven with great engineering capability, strict production quality control and uncompromising customer-oriented services, Twinhead business covers mobile systems, tactical solutions, peripherals and industrial oriented PCs and displays.

WE ARE GLOBAL.



AT THE FIELD.

GENERAL SPECS & PERFORMANCE FEATURES



Z14I Laptop



S14I Laptop



S15AB Laptop



U11I Tablet



R11 Tablet



R11L Tablet

Operating System	Windows® 10/11 Pro 64-bit	Windows® 10/11 Pro 64-bit	Windows® 10/11 Pro 64-bit	Windows® 10/11 Pro 64-bit	Windows® 10/11 Pro 64-bit	Windows® 10/11 Pro 64-bit
Processor	Intel® Core™ i5-1135G7 (i7 optional)	Intel® Core™ i5-1135G7 (i7 / i3 optional)	Intel® Core™ i5-8265U (i7 optional)	Intel® Core™ i5-10210Y (i7 optional)	Intel® Core™ i5-1235U (i7 optional)	Intel® Pentium® 4417U
Graphics	Intel® Iris® Xe Graphics Optional NVIDIA® GeForce® GTX 1050 ¹³	Intel® Iris® Xe Graphics (i3 : UHD Graphics) Optional NVIDIA® GeForce® GTX 1050 ³	Intel® UHD Graphics 620	Intel® UHD Graphics	Intel® Iris® Xe Graphics	Intel® HD Graphics 610
Memory	8-64 GB (3200MHz DDR4)	8-64 GB (2400-3200MHz DDR4)	8-32 GB (2400MHz DDR4)	8-16 GB (1866MHz DDR3)	8-32 GB (4800MHz DDR5)	4 GB (2133MHz DDR4)
Storage	256 GB NVME PCIE SSD Optional 256GB SATA SSD • Optional OPAL 2.0 SSD • Optional 2nd/3rd SSD	256 GB NVME PCIE SSD Optional OPAL 2.0 SSD Optional 2nd/3rd SSD	256 GB SSD	128 GB NVME PCIE SSD Optional OPAL 2.0 SSD	256 GB NVME PCIE SSD	128 GB NVME PCIE SSD
Display	14.0” FHD (1920 x 1080) with 1000 nits DynaVue® Technology	14.0” FHD (1920 x 1080) Optional with 1000 nits DynaVue® Technology	15.6” FHD (1920 x 1080) With 400 nits sunlight readable display	11.6” FHD (1920 x 1080) Optional with 1000 nits DynaVue® Technology	11.6” FHD (1920 x 1080) Optional with 1000 nits DynaVue® Technology	11.6” FHD (1920 x 1080) Optional with 1000 nits DynaVue® Technology
Touchscreen	Multi-Touch	Optional Multi-Touch		Multi-Touch optional with digitizer	Multi-Touch	Multi-Touch
Camera	2.0 MP with shutter design Optional IR camera for Windows Hello	Optional 2.0 MP with shutter design Optional IR camera for Windows Hello	2.0 MP	Front : 2.0 MP Rear : optional 8.0 MP auto-focus with flash	Front : 2.0 MP Rear : optional 8.0 MP auto-focus with flash	Front : 2.0 MP Rear : 5.0 MP auto-focus with flash
Additional Key Buttons	2 (user-definable)	2 (user-definable)		5 (2 user-definable)	6 (2 user-definable)	6 (1 user-definable)
Security	Intel® vPro™ Technology TPM 2.0 • Easy removable SSD Stealth mode Smart card reader default Night vision mode Optional Windows Hello Optional fingerprint scanner Optional LF/HF-RFID (NFC) reader	Intel® vPro™ Technology TPM 2.0 • Easy removable SSD Stealth mode Optional Windows Hello Optional smart card reader ¹² Optional night vision mode ¹⁰ Optional fingerprint scanner Optional LF/HF-RFID (NFC) reader ¹²	TPM 2.0 Smart card reader default ¹² Optional HF-RFID (NFC) reader ¹²	Intel® vPro™ Technology TPM 2.0 Easy removable SSD • Stealth mode Optional smart card reader × 1 or × 2 ⁹ Optional night vision mode ¹⁰ Optional fingerprint scanner Optional LF/HF-RFID (NFC) reader ⁹ Optional HF-RFID (NFC) reader ⁹	Intel® vPro™ Technology TPM 2.0 Stealth mode Optional smart card reader Optional HF-RFID (NFC) reader ¹⁴	TPM 2.0 Stealth mode Optional smart card reader Optional LF/HF-RFID (NFC) reader ¹⁴ Optional HF-RFID (NFC) reader ¹⁴
I/O Interfaces	Thunderbolt 4 (type C) × 1 USB 3.2 Gen2 (type C) × 1 (support DP) USB 3.2 Gen2 (type A) × 1 USB 3.2 Gen1 (type A) × 1 USB 2.0 (type A) × 1 Audio in/out × 1 • RJ45 × 2 • Serial port × 2 HDMI port × 1 • VGA port × 1 Docking connector × 1 • DC-In × 1 SIM card × 1 • microSD card (microSDXC) × 1 Smart card reader × 1 ExpressCard 54 × 1 or PCMCIA Type II × 1	USB 3.2 Gen 2 (type A) × 2 USB 3.2 Gen 2 (type C) × 1 (support DP) USB 2.0 (type A) × 1 Audio in/out × 1 • RJ45 × 1 HDMI port × 1 • VGA port × 1 Serial port × 1 (support RS422/485) Optional docking connector × 1 SIM card × 1 • SD card (SDXC) × 1 Optional smart card reader × 1 ¹² DC-In × 1	USB 3.1 Gen 2 (type C) × 1 USB 3.1 Gen 1 (type A) × 2 USB 3.1 Gen 2 (type A) × 1 Audio in/out × 1 RJ45 × 1 Serial port × 1 HDMI port × 1 • VGA port × 1 SIM card × 1 SD card (SDXC) × 1 Smart card reader × 1 DC-In × 1	USB 3.2 Gen1 (type A) × 1 2nd USB 3.2 Gen1 (type A) × 1 ⁸ Audio in/out × 1 microSD card (microSDHC, microSDXC) × 1 RJ45 × 1 SIM card × 1 HDMI port × 1 Docking connector × 1 Optional smart card reader × 1 or × 2 ⁹ DC-In × 1	Thunderbolt 4 × 1 USB 3.2 Gen2 (type A) × 1 Micro HDMI × 1 Audio in/out × 1 microSD card (microSDXC) × 1 Docking connector × 1 Nano SIM card × 1 DC-In × 1	USB 3.0 (type A) × 2 Audio in/out × 1 microSD card (microSDXC) × 1 Docking connector × 1 SIM card × 1 DC-In × 1
Wireless Connectivity	Wi-Fi 6 AX201 / Bluetooth® V5.2 Optional dedicated GPS & 4G LTE	Wi-Fi 6 AX201 / Bluetooth® V5.2 Optional dedicated GPS & 4G LTE	AC 9260 / Bluetooth® V5.0 Optional GPS & 4G LTE (combo)	AC 9260 / Bluetooth® V5.0 Optional dedicated GPS & 4G LTE	Wi-Fi 6E AX211 / Bluetooth® V5.2 Optional dedicated GPS ⁶ Optional GPS & 4G LTE (combo) ⁶	AC 9260 / Bluetooth® V5.0 Optional dedicated GPS ⁶ Optional GPS & 4G LTE (combo) ⁶
Media Bay / Expansion Slot	Optional DVD super multi Optional 2nd battery • Optional 3rd storage Optional PCI-Express 3.0 (2 slots) ¹³ Optional discrete VGA ¹³ Optional storage extension ¹³ Optional military-grade connectors	Optional DVD super multi Optional 2nd battery Optional media bay storage Optional ExpressCard 54 × 1 or PCMCIA Type II × 1 ³ Optional 2nd RJ45 and 2nd RS232 ³	Optional DVD super multi Optional 2nd SSD Optional 2nd SSD & 3rd SSD ¹¹	Optional serial port (RS232/422/485) or 2nd USB 3.2 Gen1 (type A) or 1D/2D barcode reader ⁸ Optional PCMCIA Type II, ExpressCard 54 or LF/HF-RFID (NFC) or HF-RFID (NFC) or 2nd smart card reader ⁹	Optional 1D/2D barcode reader Optional RJ45 port or HF-RFID (NFC) or smart card reader or MSR+smart card reader or RJ45/RS232/smart card reader ¹⁴	Optional 1D/2D barcode reader Optional RJ45 port or LF/HF-RFID (NFC) or HF-RFID (NFC) or smart card reader or MSR+smart card reader or RJ45/RS232/smart card reader ¹⁴
Power Adapter	AC adapter : 100-240V, 50Hz-60Hz, 90W Optional AC adapter (100-240V, 50Hz-60Hz, 120W), with NVIDIA® VGA	AC adapter : 100-240V, 50Hz-60Hz, 90W Optional AC adapter (100-240V, 50Hz-60Hz, 120W), with NVIDIA® VGA	AC adapter : 100-240V, 50Hz-60Hz, 65W	AC adapter : 100-240V, 50Hz-60Hz, 65W	AC adapter : 100-240V, 50Hz-60Hz, 65W	AC adapter : 100-240V, 50Hz-60Hz, 65W
Battery Life ¹	16 (up to 25 hours with optional 2nd battery)	10 (up to 20 hours with optional 2nd battery)	13.5	13.5 (up to 24 hours with optional hi-cap battery)	up to 14 hours with optional hi-cap battery	8 (up to 16 hours with optional hi-cap battery)
Hot-Swappable Battery	Optional	Optional		Optional		
Operating Temperature	-20°C ~ 60°C / - 4°F ~ 140°F	-20°C ~ 60°C / - 4°F ~ 140°F	-20°C ~ 60°C / - 4°F ~ 140°F	-20°C ~ 60°C / - 4°F ~ 140°F	-20°C ~ 60°C / - 4°F ~ 140°F	-20°C ~ 60°C / - 4°F ~ 140°F
Storage Temperature	-51°C ~ 71°C / -60°F ~ 160°F	-51°C ~ 71°C / -60°F ~ 160°F	-51°C ~ 71°C / -60°F ~ 160°F	-46°C ~ 71°C / -51°F ~ 160°F	-40°C ~ 71°C / -40°F ~ 160°F	-40°C ~ 71°C / -40°F ~ 160°F
Dimension	356 mm (L) × 280 mm (W) × 50 mm (H) ⁴ 14.02” (W) × 11.02” (D) × 1.97” (H) ⁴	350 mm (L) × 282 mm (W) × 38 mm (H) ⁴ 13.78” (W) × 11.1” (D) × 1.5” (H) ⁴	375 mm (L) × 273 mm (W) × 29.5 mm (H) 14.76” (W) × 10.75” (D) × 1.16” (H)	317mm (W) × 215mm (D) × 24 mm (H) 12.48” (W) × 8.46” (D) × 0.94” (H)	299 mm (L) × 192 mm (W) × 20 mm (H) 11.73”(L) × 7.56” (W) × 0.78” (H)	299 mm (L) × 192 mm (W) × 20 mm (H) 11.73”(L) × 7.56” (W) × 0.78” (H)
Weight ⁵	3.6 kg / 7.93 lb	2.3 kg / 5.07 lb	2.6 kg / 5.73 lb	1.39 kg / 2.99 lb	1.2 kg / 2.65 lb	1.2 kg / 2.65 lb

RUGGED FEATURES

MIL-STD-810H / 810G Certified ²	810H	810H	810G	810H	810H	810G
MIL-STD-461G / 461F Certified ²	461G			461G	461F	461F
Drop Rating / IP Certified ²	6 ft / IP 65	4 ft / IP 53	3 ft / IP 5X	6 ft / IP 65	4 ft / IP 66	4 ft / IP 65
ANSI/ISA 12.12.01	●			●	●	●
Removable Quick-Release Storage	●	●		●		
Aluminum-Magnesium Alloy Chassis	●	●	●	●	●	●
Fanless Design	●			●		
3-Year Warranty	●	●	●	●	●	●

1. Battery life, unless otherwise stated, is based on MobileMark. Results may vary under different situations including hardware configuration, software, operating conditions, power management settings and other factors.

2. Tested by a national, independent third-party lab following MIL-STD-810H, MIL-STD-810G, MIL-STD-461G, MIL-STD-461F and IEC 60529 standards.

3. Not available in combination with Intel® Core™ i3 CPU.

4. Actual height may vary with optional discrete VGA.

5. Actual weight may vary with different configurations.

6. GPS/WWAN and dedicated GPS are mutually exclusive options.

7. RJ45, smart card readers and RFID are mutually exclusive options.

8. 2nd USB 3.2 type A port, RS232 or 1D/2D barcode reader are mutually

exclusive options. USB 2.0 or USB 3.1 type C are project-based features.

9. PCMCIA, ExpressCard, RFID and 2nd smart card reader are mutually exclusive options.

10. Night vision mode is available only for sunlight readable display.

11. Factory option only. Support RAID 0 and RAID 1.

12. RFID and smart card reader are mutually exclusive.

13. Mutual exclusive options.

14. RJ45, RFID and smart card readers are mutual exclusive options.

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