

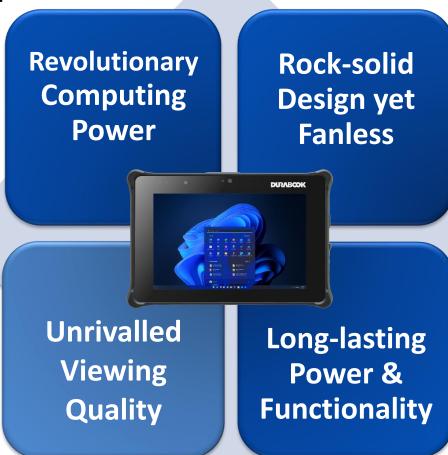
DURABOOK R8 INTRODUCTION

Durabook Marketing Division

UNIQUE SELLING PROPOSITION

- 12th Intel[®] Core Processor
- Intel® Xe Graphics
- Wi-Fi 6E AX211
- Thunderbolt 4
- Compact and Lightweight (860g)

- 8" HD LCD with DynaVue® Technology and up to 800 nits
- 4 Touch Modes



- Fanless Design
- IP 66, 6' Drop
- MIL-STD-810H
- MIL-STD-461G
- ANSI/UL C1D2
- Wide Range Temperature
 (-20°C to 60°C)
- Long-Lasting Battery Life and Swappable Battery
- Battery Charging Protection

TARGETS & APPLICATIONS

Applications

- Remote and Assets Management
- Inspection and Maintenance
- Warehouse Management
- Automotive Diagnostic



Professional Service



First Responder



Transport & Logistics



Automotive



R8 FEATURES HIGHLIGHT

THE WORLD'S ONLY FANLESS 8" FULLY RUGGED TABLET

- 12th Gen. Intel® processors 450% 800% faster than competitor devices running on Intel® Atom® CPUs.
- Fanless Design with zero downtime.
- 8" HD LCD (1280 x 800) 800 nits sunlight readable display with optional digitizer support.
- Standby Mode with swappable battery design (optional).
- Battery Charging Protection Technology.

















REVOLUTIONARY COMPUTING POWER

12TH GENERATION INTEL® CPU

 R8 is the world's only 8" tablet solution equipped with the latest Intel 12th Alder Lake CPU. Processor's options are from Pentium Gold to Core i7 U-series.



- R8 basic solution Pentium[®] Gold 8500 processor,
 up to 450% faster than Intel[®] Atom[®] CPUs.
- R8 advanced solution Core[™] i7-1250U
 up to 800% faster than Intel[®] Atom[®] CPs.

	Intel® Atom x7-Z8750	Intel® Pentium Gold 8500 Alder Lake	Intel® Core i5-1230U Alder Lake	Intel® Core i7-1250U Alder Lake
Turbo Speed	Up to 2.56 GHz	Up to 4.2 GHz	Up to 4.0 GHz	Up to 4.8 GHz
# of Physical Cores	4	1P+4E	2P+8E	2P+8E
Cache	2MB	8MB	12MB	12MB
CPU Mark	1,373	6,180	9,160	10,937



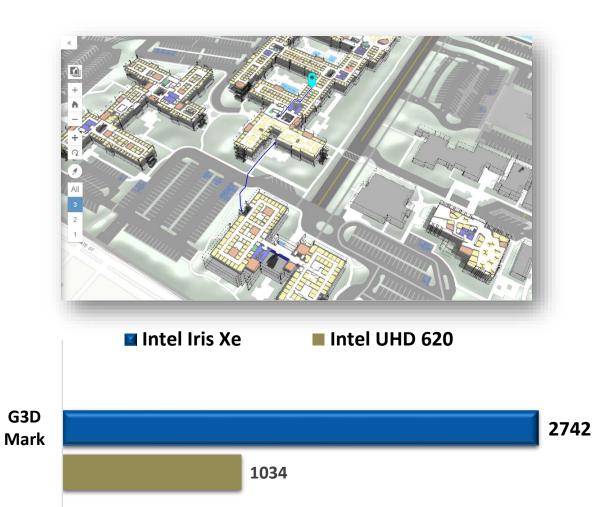
GRAPHIC PERFORMANCE

INTEL® IRIS XE GRAPHICS

The R8 comes with Intel® Iris Xe
 Graphics clocked 150 MHz higher than
 UHD 620 results in 2.65x faster 3D
 effective speed - Better Than Enough
 in daily usages.







Source: PassMark

THUNDERBOLT™ 4 TECHNOLOGY

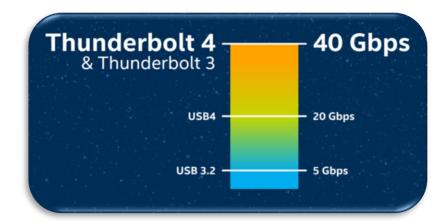
THUNDERBOLT,

UNIVERSAL CABLE CONNECTIVITY

Thunderbolt 4 is the latest version of Intel's Thunderbolt line.

Thunderbolt 4 is more powerful and makes connecting the modern workspace more flexible and simpler than ever.

- Delivers 40Gb/s of bandwidth
- One port supports multiple protocols
 - USB 4
 - DisplayPort
 - PCle
- Support up to 2x 4K external displays
- It is backwards compatible with Thunderbolt 3 & USB-C
- Maximum flexibility for docking station
- Bi-directional power
 - Power share + power delivery (PD)





SEAMLESS CONNECTIVITY

- Intel Wi-Fi 6E AX 211 with max. speed of 9.6Gbps is 10 times faster than AC 8265 with max. speed only 867Mbps.
- Bluetooth V5.2 bandwidth is **8x** greater than V4.2, which is capable connecting "multiple devices" at once.

	DURABOOK R8	Market Solution A	Market Solution B
WIN	AX 211	AX 200	AC 8265
	V5.2	V5.2	V4.2

	Emission Speed	Effective Range
Bluetooth 5.2	3.0 MB/s	Max 300 meters
Bluetooth V4.2	1.5MB/s	Max 100 meters

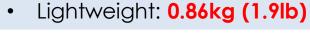


COMPACT-SIZED YET FANLESS

EXTREME POWER, ULTRA COMPACT

At just 20.5 mm (0.81") thin and weighing only 0.86kg (1.9lb), the R8 brings a light new edge to the fully-rugged class of small size tablets.

- Palm Size: **227mm x 150mm**
- Thin & Slim: 20.5mm (0.81") thickness











VIEW EVERY DETAIL

THE NEW GENERATION OF DYNAVUE® TECHNOLOGY

Default with 8.0" LCD (1280x800) display with 800 nits DynaVue® sunlight readable display.

The new DynaVue® light-filtering technology provides a high contrast ratio (CR) to eliminate reflection and deliver the best clarity.

High Brightness

Light Filtering Technology

DynaVue®









Dyna VueIncreased Clarity &
Wider Viewing Angle

TOUCH IN AND OUT

4 TOUCH MODE AND OPTIONAL DIGITIZER SOLUTION



✓ 4 touch modes: glove, stylus, water & finger mode.









Slim & light for seamless input



New Stylus

R8 comes with a slim stylus as standard, a more precise alternative to your fingertips. It allows you to easily control and navigate your tablet. A stylus can provide increased accuracy and deliver more pristine linework than that of your fingertip.

FANLESS DESIGN FOR THE MOST CHALLENGING ENVIRONMENTS

- Zero Downtime
- Fan failure is one of most common reasons lead to system overheat, and therefore damaging other components.
 Especially in desert environment, the fan failure rate is becoming higher.
- Fanless design also means free-of-noise. In some user scenarios, such as battlefield, hospital and stealth mode, every peace matters.
- R8 provides best performance with better thermal in this compact design.



Acoustic Test		
Durabook R8	0 dBA	
Market Solution A/B/C	37-40 dBA	





DROP RESISTANCE

BUILT TO LAST IN EVERY APPLICATIONS



✓ All drops performed on one unit, operating.

~4 ft height





~5 ft height





MORE RUGGED THAN EVER

MIL-STD-810H CERTIFIED, 6 FEET DROP AND IP 66

- With excellent design know-how, the R8 is able to withstand harsher environmental challenges than ever.
- R8 is MIL-STD 810H certified (6' Drop, Shock, Vibration, Rain, Dust, Altitude, Freeze/Thaw, High/Low Temperature, Temperature Shock, Humidity, MIL-STD 461G & ANSI C1D2.



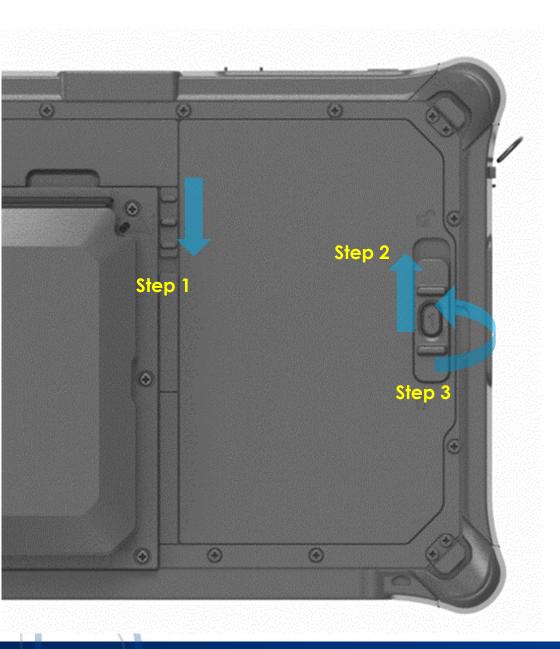








	Rugged Features			
1	Durabook R8	6 feet drop + IP66 + MIL- STD 4161G		
	Market Solution A			
	Market Solution B	5 feet drop + ANSI C1D2		
	Market Solution C	T ANSI CIDZ		



NON-STOP MOBILITY

EASY BATTERY SWAPPABLE CAPABILITIES

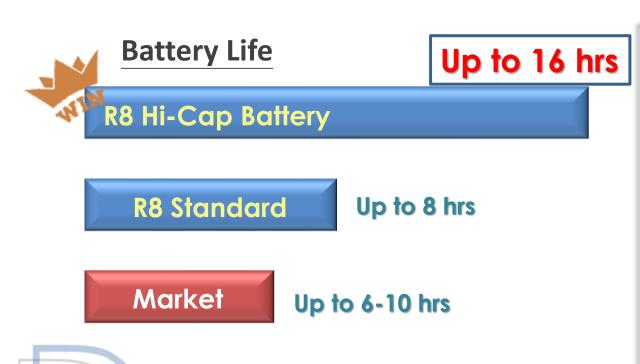
ONE, TWO, THREE and GO!

Work never interrupted with the friendly mechanical design for easy battery swappable capabilities and full protection that minimize the working downtime.



MARKET LEADER FOR POWER SUPPLY

The R8 is the market leader in battery performance with up to **16 hours** per single battery. In addition, the R8 is designed which allows the tablet to enter an efficient power saving state while stay awake and connected with limited background activities when screen is dimmed.





BATTERY CHARGING PROTECTION

To reduce battery aging, Durabook has developed four battery charging modes with enhanced charging algorithms for our customers to choose from.

4 Battery modes:

- Regular Mode
 In this mode the battery will be fully charged.
- Optimized Battery Charging (OBC)
 Battery charging will stop at 80% to reduce battery aging.
- Temperature Control Mode (TCM)
 To extend the lifetime of the battery, charging is enhanced based on DURABOOK intelligent algorithm and battery temperature.
- DURA² Charging (D2C)
 To maximize battery performance and lifespan, charging is enhanced based on DURABOOK intelligent algorithm and battery temperature. Battery charging will stop at 80%.



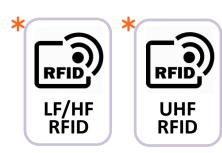
SPEAK ALL LANGUAGES

EXPANDABLE AND CONFIGURABLE I/O OPTIONS

* optional





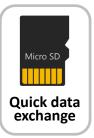


















Legacy Device



Transfer/

Server

INFINITE CUSTOMIZATION 1/2

VERSATILE BARCODE SCANNER, HIGH COMPATIBILITY.

The R8 can be installed with a barcode reader from **Honeywell**, which gives users the ability to scan all kinds of codes from multiple barcodes to QR codes.



















INFINITE CUSTOMIZATION 2/2

- R8 offers expansion modules for enhanced flexibility:
 - Barcode Reader or USB 3.2 Gen 1 (Type A)
 - RS-232/RJ-45/USB 3.2 Gen 1 (Type A) Module
 - Smart Card reader + UHF-RFID (NFC) Module
 - Smart Card reader + LF/HF-RFID (NFC) Module

Other customized features available by request.





Smart Card reader + RFID (NFC) or RS-232/RJ-45/USB 3.2 Gen 1 combo module

R8 ANATOMY





R8 ANATOMY



WHY DURABOOK

	DURABOOK R8	Market Solution A	Market Solution B	Market Solution C
MIL-STD	MIL-STD-810H certified 6' drop	MIL-STD-810H certified 6' drop	MIL-STD-810G certified 5' drop	MIL-STD-810G 3' drop (optional 6")
EMC	MIL-STD-461G	MIL-STD-461G	N/A	N/A
IP	IP66	IP65	IP65	IP65
Display	8" LCD (800 x1280) 800 nits	8.1 "LCD (1280 x 800) 600nits	7" WXGA (1280 x 800) 700 nits	8.4" 720 nits
CPU	12th Generation CPU Pentium Gold 8500 Intel® Core TM i5-1230U up to 4.4 Ghz, vPro Intel® Core TM i7-1250U up to 4.7 Ghz, vPro	Intel® Atom Processor x7-Z8750 up to 2.56GHz	Intel® Core TM i5-7Y57 Processor up to 3.3 GHz	Intel Atom A3940 quad core 1.6 GHz up to 2.0 GHz
Graphic	Intel Iris® Xe Graphics	Intel® HD Graphics	Intel® HD Graphics 615	N/A
Storage	NVMe SSD / OPAL 2.0 SSD (128GB/256GB/512GB/1TB)	128GB/ 256GB eMMC	256 GB SSD	64 GB eMMC flash
RAM	8GB up to 16GB	4GB up to 8GB	8GB	4GB
I/O Interface	Default: USB 3.2, Thunderbolt 4, fully insertable Smart Card reader (optional)	Default: USB 3.2, Micro HDMI (optional: SIM card)	Default: Micro SDXC, USB 3.0 (optional RJ-45 or USB 2.0)	Type C
Wireless	- Intel 6E AX211 - Bluetooth V5.2 - Optional 4G LTE	 Intel® Wi-Fi AX200 Bluetooth V5.2 Optional 4G LTE 	- Intel Dual Band Wireless AC 8265 - Bluetooth V4.2 - Optional 4G LTE	- Bluetooth V4.2 - Optional 4G LTE
Batterv	8 hrs (up to 16 hrs)	Up to 10 hrs	8 hrs (up to 16 hrs)	N/A

Prepared for the Unexpected

