



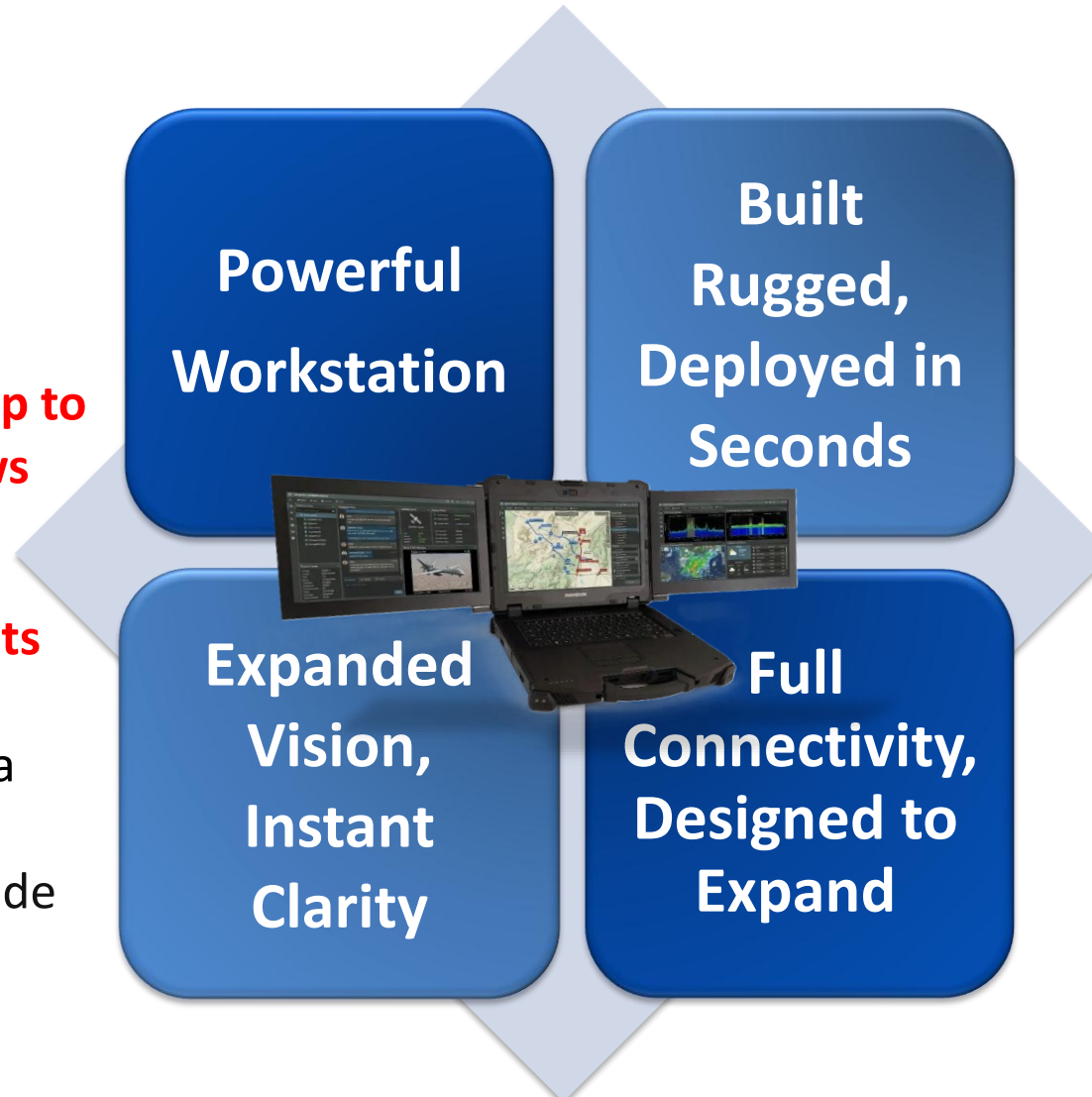
DURABOOK
Prepared for the Unexpected

DURABOOK Z14I-DX3 INTRODUCTION

DURABOOK MARKETING DIVISION

UNIQUE SELLING PROPOSITION

- **Triple-display rugged workstation** powered by Intel® Core Ultra CPU
- Embedded AI Boost NPU
- Intel® Graphics
- **Optional NVIDIA® GPU up to 682 Tops for AI workflows**
- 3x 14" Full HD DynaVue Technology up to **1200 nits**
- **Multi-Panel Brightness** adjustable individually via dedicated OSD controls.
- Night Vision / Stealth Mode
- Four Touch Modes



- **Foldable design for mobile deployment**
- MIL-STD-810H & 461G
- Wide Range Temp **(-29°C - 63°C)**
- **Dual Quick-Release Storage**
- **Windows 11 Secured-Core PC**
- **Windows Hello Camera**
- **Removable Batteries**
- Abundant I/O Ports with One **Thunderbolt 4**, three USB Type A, two RJ-45, two RS-232
- **Wi-Fi 7**, BT 5.4, **4G/5G**, **Dual SIM**
- **Optional bundled with NVIDIA® RTX™ A500 or RTX™ 3500/ 5000 Ada discrete GPU.**

THREE SCREENS. EDGE AI. ONE COMMAND WORKSPACE.



Bring a complete command workspace into the field.

The DURABOOK Z14I-DX3 combines three integrated 14-inch displays, workstation-class computing and rugged construction in a foldable system. Its integrated triple-display system and edge AI computing support video, mapping, telemetry, communications and reporting.



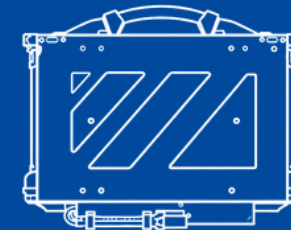
Integrated Triple-Screen Workspace

Three 14-inch Full HD displays keep maps, video and operational data in view.



Workstation-Class Edge AI

Intel® Core™ Ultra processing and optional NVIDIA® graphics support compatible AI workloads.



Portable & Deployable

Both expansion displays stay attached, folding inward for transport between operating locations.

TARGETS & APPLICATIONS

Applications

- Command & Control / Situational Awareness
- Multi-Feed Video Surveillance Monitoring
- GIS Mapping & Multi-Layer Dispatch
- Drone / UGV Ground Control Station
- Vehicle-Mounted Mobile Command Post
- Training & Simulation Console

Military



Public Safety



Utilities



Professional Service



Z14I-DX3 FEATURES HIGHLIGHT

THREE SCREENS. ONE RUGGED POWERHOUSE.



- **Triple-display rugged laptop**, powered by an **Intel® Core™ Ultra 5 125U** (up to 4.3 GHz) or **Ultra 7 155U** processor (up to 4.8 GHz), with Intel® vPro® technology
- **Three 14-inch FHD (1920 x1080) displays**, each featuring 1,200-nit brightness, DynaVue® sunlight readability, and capacitive multi-touch support
- **Integrated folding design** enables fast deployment without additional hardware.
- Built-in **Intel® AI Boost NPU**
- Optional **NVIDIA® RTX™ A500/2000 Ada/5000 Ada Graphics** as AI Accelerator
- Independent/synchronized on-screen display (OSD) controls across all three screens
- **Two removable storage drives** with quick-release mechanisms
- **Windows 11 Secured-Core PC** ready



WIDER VISION FOR GREATER CONTROL

EXPAND YOUR VISION TO COMMAND EVERY MISSION.

- **Three 14" Full HD Displays**

View more with three 1920 × 1080 displays, each featuring **independent on-screen display (OSD) controls** for individual brightness adjustment.

- **1200-Nit Sunlight-Readable Clarity**

DynaVue® light-filtering technology enhances contrast and reduces reflections for clear visibility even in bright sunlight.

- **16:9 Widescreen Format**

Each display provides a wide viewing area for maps, live video feeds, and mission-critical applications.

- **Four Versatile Touch Modes**

Finger, glove, stylus, and water modes adapt touch operation to changing field conditions.



**Dyna
Vue**



THE COMMAND CENTER YOU CAN CARRY

UNFOLD, POWER UP, AND GET TO WORK WITH ONE INTEGRATED SYSTEM.



- **Integrated single-chassis design** — both expansion displays fold seamlessly into the system for transport and storage as one complete unit.
- **Three-screen workspace in seconds** — deploy a full multi-display workstation without external monitor mounts, cables, or docking hardware.
- **One system. One power source.** — a single AC adapter powers the entire platform, reducing loose accessories and simplifying field deployment.

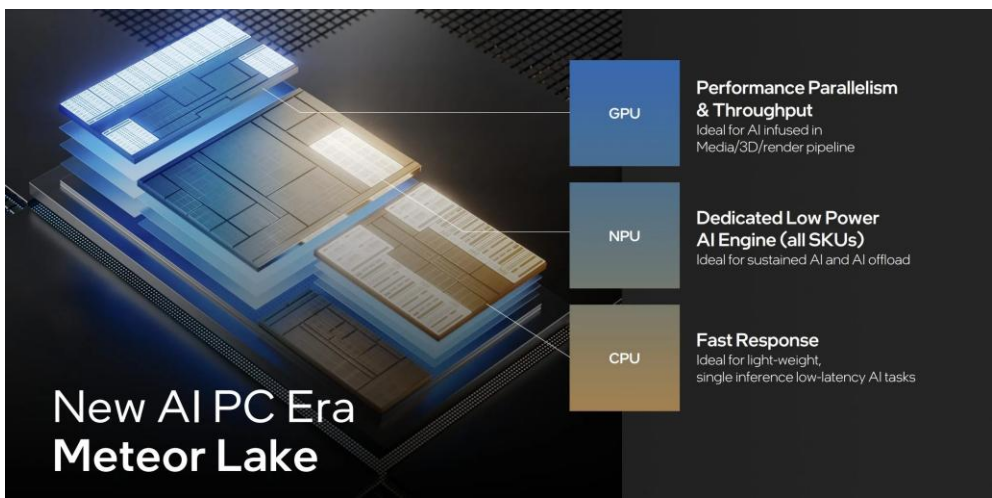
COMPUTING POWER WITH AI

14TH GENERATION CPU



7nm

- Z14I-DX3 **Meteor Lake Core™ Ultra Processor**, with 3 types of performance-tailored cores **totaling to 12 cores, boasts a 12MB cache**, achieving **37% higher** performance than previous generation. Intel® Meteor Lake processor also offers true **Hardware AI Acceleration** with multi-compute engines, **CPU + GPU + AI Boost NPU**.

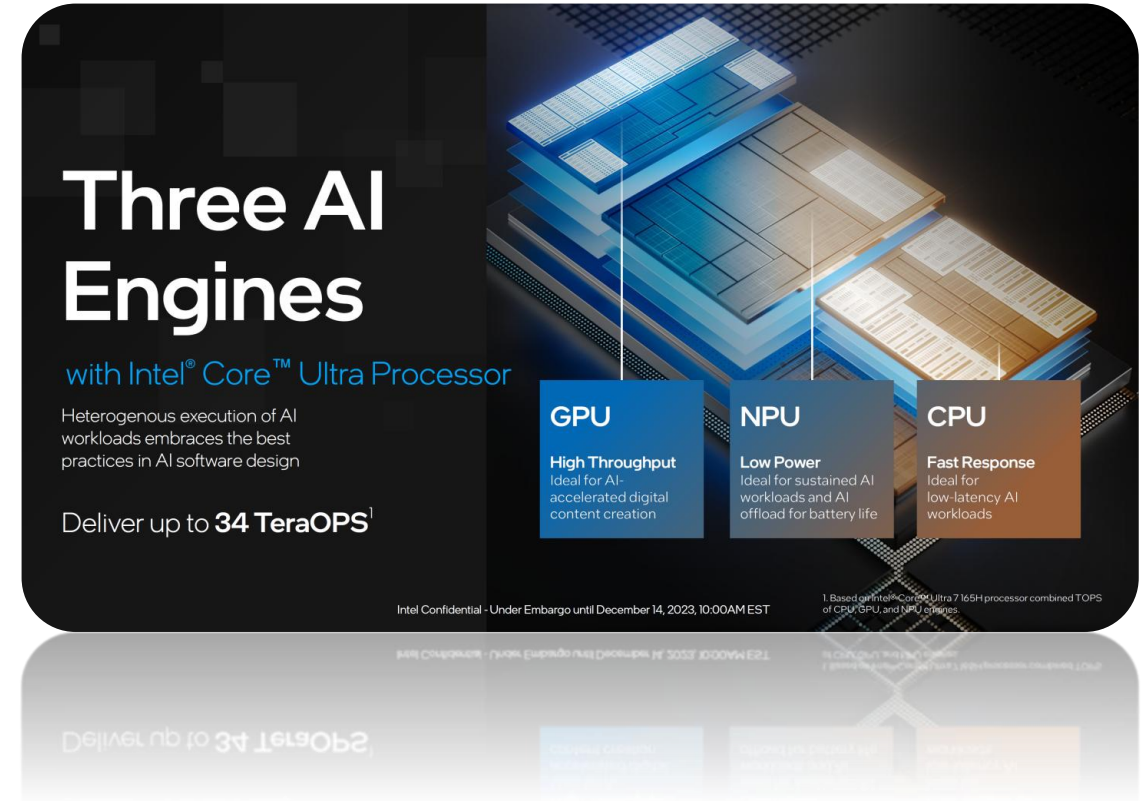


- Manufactured with Intel 4 (**7nm**) semiconductor process, Core Ultra CPU offers **20% higher performance per watt** than 11th Gen Tiger Lake **10nm** CPU.

	Intel® Core i5 1135G7	Intel® Ultra 5 125U Meteor Lake	Intel® Ultra 7 155U Meteor Lake
Turbo Speed	Up to 4.2 GHz	Up to 4.3 GHz	Up to 4.8 GHz
# of Physical Cores	4 Cores	12 Cores	12 Cores
Cache	8MB	12MB	12MB
CPU Mark	9,834	13,561	14,973

NEW PC LEVEL - INCREDIBLE AI

- Z14I-DX3 with an Intel® Core™ Ultra processor, is Durabook's **first AI Ready PC** with three distinct AI engines: a NPU (Neural Processing Unit) optimized for AI operations, a GPU, and a CPU.
- AI intensive computations are offload to dedicated NPU processor, freeing up CPU and GPU's computing power to enhanced total platform performance.
- Combined AI engines of CPU, NPU and GPU offering unprecedented AI computing power opens unlimited possibilities.



AI PC RIGHT AT YOUR FRONT



The image shows a close-up of an Intel Core Ultra processor chip, which is a square, gold-colored component with a grid of pins, mounted on a dark blue circuit board. The chip is angled towards the viewer, showing its top surface. The background is dark and slightly blurred.

intel CORE ULTRA

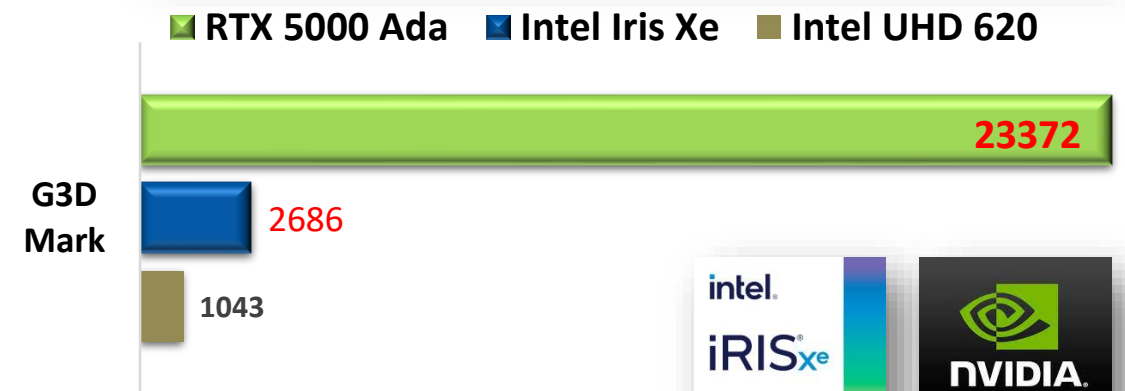
Models ✓	
BERT	Stable Diffusion
Whisper	Dolly
LLaMA	>80 in total
ChatGLM	
Quantization Tools ✓	
OpenVINO™ Neural Network Compression Framework	
Intel® Neural Compressor	
Hugging Face Auto GPTQ	
ONNX RT Quantization	
Frameworks ✓	
OpenVINO™	WebNN (Dev preview)
ONNX	WebGPU
WindowsML	Hugging Face Optimum (OpenVINO backend)
DirectML	PyTorch (OpenVINO backend)
WebAssembly	Olive
Applications ✓	
Audacity	
GIMP	
Microsoft 365	
Superpower	
...and more to come	

- Intel® Core™ Ultra Processors run the latest LLMs, transformers and text-to-image workloads, helping you be more productive and creative.
- Users may fully exploit AI on their PCs with Intel's support for **hundreds of programs** that already make use of it, making it the most expansive ISV ecosystem in the PC CPU market.

GRAPHICS PERFORMANCE

INTEL® GRAPHICS + NVIDIA® RTX™ 3500/ 5000 ADA

- The Z14I-DX3 features enhanced Intel® Graphics with **4 Xe cores**, delivering up to **200% higher** performance per watt compared to Iris® Xe graphics. Its 3D rendering performance is also **2.5x faster** than Intel® UHD 620.
- For professionals handling demanding graphics workloads, the Z14I-DX3 can also be configured with discrete NVIDIA® RTX™ 3500 or 5000 Ada GPUs, delivering up to **23x** faster 3D effective speed performance than Intel® UHD 620.



Source: [PassMark](#)

GRAPHICS PERFORMANCE COMPARISON

NVIDIA® RTX™ 3500/ 5000 ADA

Feature	RTX™ 5000 Ada	RTX™ 3500 Ada	RTX™ A500
Architecture	Ada Lovelace	Ada Lovelace	Ampere
CUDA Cores	9,728	5,120	2,048
Tensor (AI) Cores	304 (4 th Gen)	160 (4 th Gen)	64 (3 rd Gen)
Ray Tracing Cores	76 (3 rd Gen)	40 (3 rd Gen)	16 (2 nd Gen)
AI Performance (INT8)	682 TOPS	369 TOPS	100 TOPS
PassMark (3DMark)	23,372	19,606	6,611
Memory	16GB GDDR6 (ECC)	12 GB GDDR6 (ECC)	4 GB GDDR6
Memory Bandwidth	576 GB/s	432 GB/s	112 GB/s

- Over **3.5x** the Graphics Power: With a PassMark score of **23,372**, render complex 3D models or analyze large datasets in real-time, right on-site.
- Nearly **7x** the AI Power: Leverage **682 TOPS** of dedicated AI performance to run predictive maintenance and analytics, delivering insights without delay.
- **4x** the Memory for Complex Projects: The **16 GB ECC GDDR6** memory handles massive schematics, sensor data, and multiple applications simultaneously, even when offline.

COPILOT - THE AI ASSISTANT AT WORK

YOUR EVERYDAY AI COMPANION

Microsoft Copilot is an AI-powered assistant available in Windows 11.

It leverages the power of AI to boost productivity and unlock creativity.

- Find answers and inspiration from the web.
- Works within Microsoft 365 apps, documents, and conversations.
- Integrates with security systems, data analysis, and business applications.



COPILOT KEY



THUNDERBOLT™ 4 Technology

UNIVERSAL CABLE CONNECTIVITY

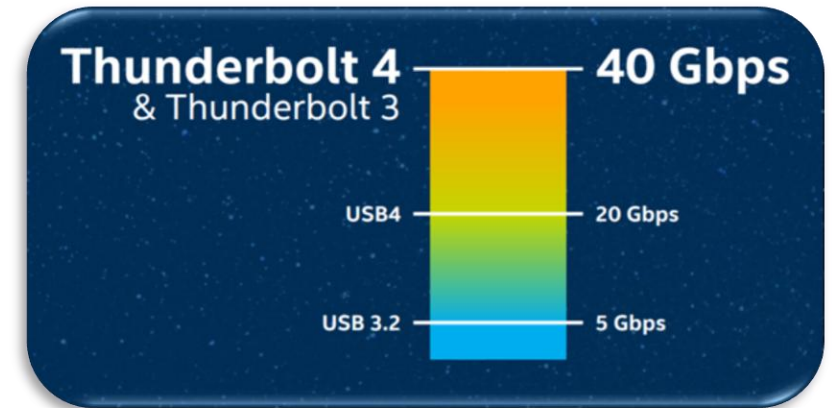


THUNDERBOLT™

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
 - PCIe
- Support up to **2x** 4K displays
- It is backwards compatible with Thunderbolt 3 & USB-C
- Maximum flexibility for docking station
- Bi-directional power
 - Power share + power delivery (PD)



One universal port makes it simple to connect to multiple protocols



MAXIMUM CONNECTIVITY

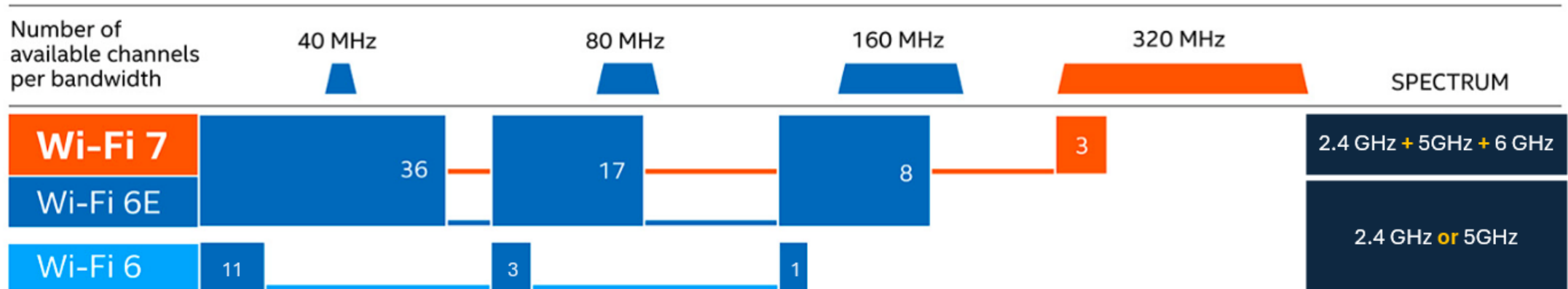
INTEL® WI-FI 7 BE200

- Intel® **Wi-Fi 7 BE200**, a revolution in Wi-Fi technology, provides advancement in connection speed, channel bandwidth, throughput and MLO (Multi-Link Operation).
- Wi-Fi 7 provides Extremely High Throughput (EHT) and additional **320 MHz Channels**.
- Wi-Fi 7 BE200 has max. data transfer speed of **46 Gbps**, **4.8x** faster than Wi-Fi 6 AX201's max speed of 9.6 Gbps
- Wi-Fi 7 BE200 with Bluetooth® **V5.4** provides data transfer range of up to 300 meters (= 984 ft)

Brand	Wireless Lan	Bluetooth	Wi-Fi Speed	Max Channel Bandwidth	Band
 Durabook Z14I-DX3	BE200	V5.4	46 Gbps	320 MHz	2.4 GHz + 5 GHz +6 GHz (Multi Link)
Market Solution P	AX201	V5.2	9.6 Gbps	160 MHz	2.4 GHz or 5 GHz (Single Link)

WI-FI 7 NEXT GENETATION CONNECTIVITY

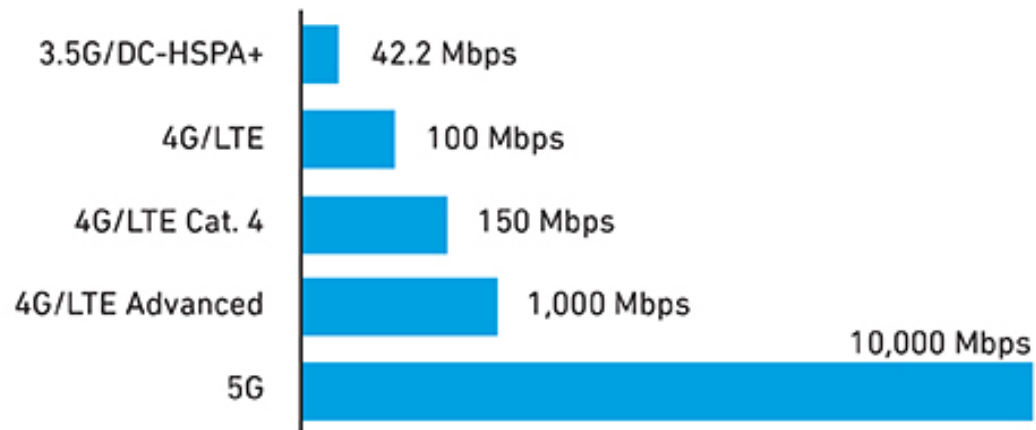
Wi-Fi 7 offers a 6 GHz frequency band in addition to Wi-Fi 6's 5 GHz and 2.4 GHz. Wi-Fi 7 also uses a unique new MLO (Multi-Link Operation) technology to transmits data by simultaneously connecting to two bands. The **extended 6GHz spectrum** and **Multi-Link Operation** offer **higher data transfer speed**, **wider bandwidth** and **reduced interference**.



SEAMLESS CONNECTIVITY

- Advanced wireless capabilities include cellular options of 4G LTE or 5G.
- 5G mobile connectivity offers ultrafast data transfer speed over previous generations of mobile networks, which is **100x** fast than 4G LTE. Providing always-on high-speed connectivity for workers in the field with improved productivity anytime, anywhere.

Downlink Speeds by Technical Generation



GOVERNMENT SECTOR

- Z14-DX3's designed with **u-blox NEO M9N module** to provide high GPS accuracy.
- **And more**, featured by **RF Tri-pass-through** (WIFI, WWAN, GPS), in-field professionals can connect to the remote database in real time.



INDEPENDENT POWER FOR GREATER FLEXIBILITY

EASY BATTERY SWAPPABLE CAPABILITIES

- **Independent Power for Laptop and Displays**

Two dedicated batteries power the laptop and the two additional displays separately.

- **Easy, Tool-Free Removal**

Remove and replace either battery without additional tools.

- **Flexible Battery Replacement**

Replace each battery individually as operational needs change.

- **Simplified Field Maintenance**

Easily accessible, removable batteries make replacement convenient in the field.

Battery for the laptop



Battery for the displays



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%.



MILITARY-GRADE LEVEL

DUAL QUICK-RELEASE STORAGE

Dual Quick-Release NVMe PCIe SSD Storage

The Z14I-DX3 features two NVMe PCIe SSDs that are quick and easy to remove. It is equipped with the latest NVMe PCIe SSD solution, providing up to 2TB of each storage.



MULTI-STORAGE MANAGEMENT



Z14I is equipped with the latest NVMe PCIe SSD technology, with storage capacities ranging from 256GB to 2TB.

It can carry up to 3 SSDs, all designed with quick-release system for ease-of-use and supports RAID 0 and RAID 1.

- 1 x NVMe PCIe SSD
- 1 x NVMe PCIe SSD
- 1 x Media Bay 2.5" SATA III SSD

Featured with NVMe PCIe SSD performance:

- Speeds up to **7000 MB/s (PCIe Gen4)**
- **11x** faster than SATA III SSD

Type	Speed
 Durabook Z14I NVMe PCIe 4x4	7000 MB/s
Market SATA III Solution	600 MB/s

MULTIPLE WAYS OF SETUP

MEDIA BAY FOR YOUR CHOICE

Media bay options for user selection to achieve difference application fulfillments:

- Optical disk drive
- 2nd battery
- 3rd storage (SATA SSD)



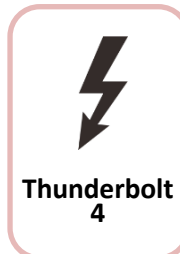
SPEAK ALL LANGUAGES

EXPANDABLE AND CONFIGURABLE I/O OPTIONS

Default built-in:

- Thunderbolt 4 (Type C) x 1
- USB 3.2 Gen 2 (Type A) x 1,
USB 3.2 Gen 1 (Type A) x 1,
USB 2.0 (type A) x 1
- **HDMI 2.1 + VGA ports**
- **RJ-45 x 2**
- **RS-232 x 2** (support 422 and 485)
- **Smart Card/CAC reader**
- Dual SIM (Nano SIM & eSIM)
- microSD card reader
- **ExpressCard 54**
- Optional RFID reader *
- Optional fingerprint reader *

* by project support



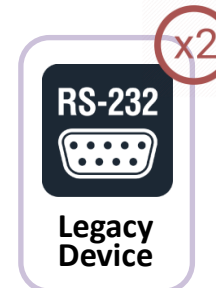
Thunderbolt 4



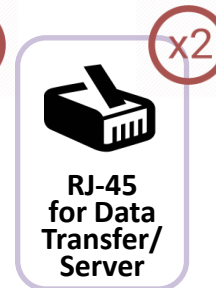
HDMI Support Multiple Displays



VGA Support Multiple Displays



Legacy Device



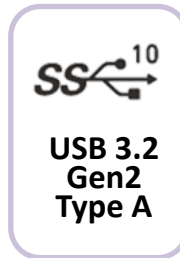
RJ-45 for Data Transfer/Server



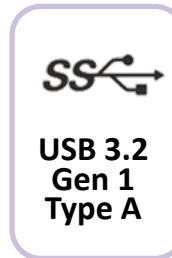
Smartcard Data Access Security



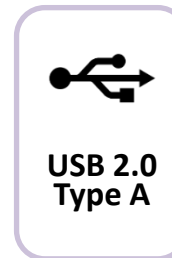
Fingerprint Data Access Security



USB 3.2 Gen2 Type A



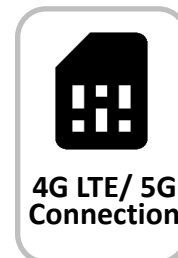
USB 3.2 Gen 1 Type A



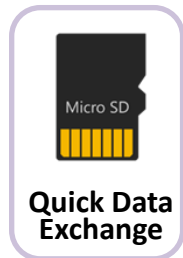
USB 2.0 Type A



Legacy Device



4G LTE/ 5G Connection



Quick Data Exchange



LF/HF RFID

IMPROVED SECURITY WITH WINDOWS HELLO

UTILIZE THE POWER OF BIOMETRICS-BASED TECHNOLOGY

Z14I-DX3 supports Windows Hello face authentication. The Z14I-DX3 is equipped with a near infrared (IR) camera with facial recognition capability to authenticate and unlock Windows devices. Near infrared camera provides consistent image sensing capability in various ambient light environments, enabling users to login to Windows securely.



Windows Hello



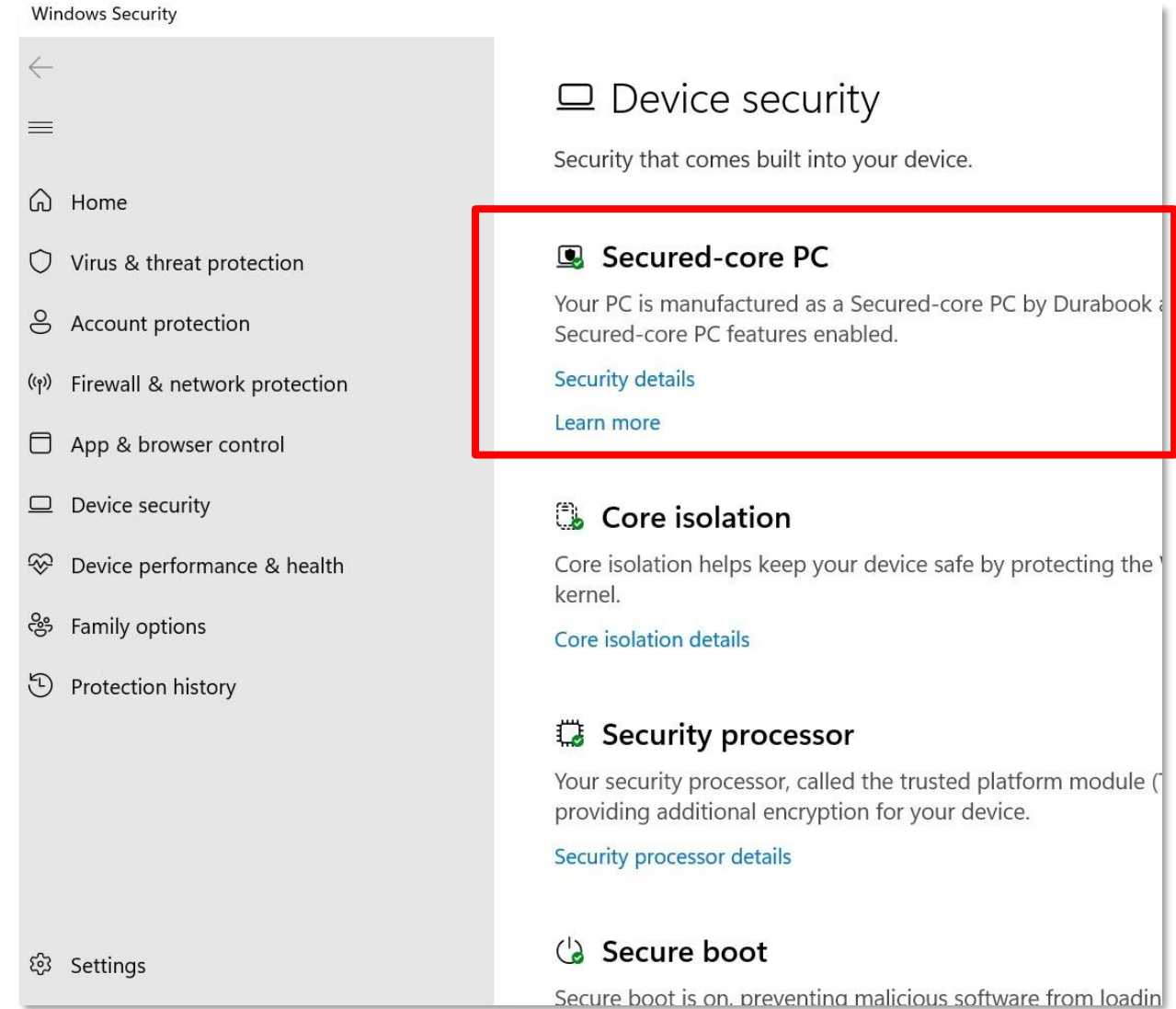
Face Authentication

ELEVATE PROTECTION WITH SECURED-CORE PC

SUPPORTING WINDOWS HELLO

*Secured-core PC is project base

- **Multifactor Authentication (MFA)**
 - Capacitive Fingerprint Reader
 - Camera for Windows Hello facial recognition
 - Smart Card reader
 - LF/HF-RFID reader
- **Sniff out any tampering bootups**
 - TPM2.0 prevents tampering or malicious attacks.



TAILORED TO THE MISSION

PCIe Expansion Box



Ground Control Station



Discrete VGA Graphics

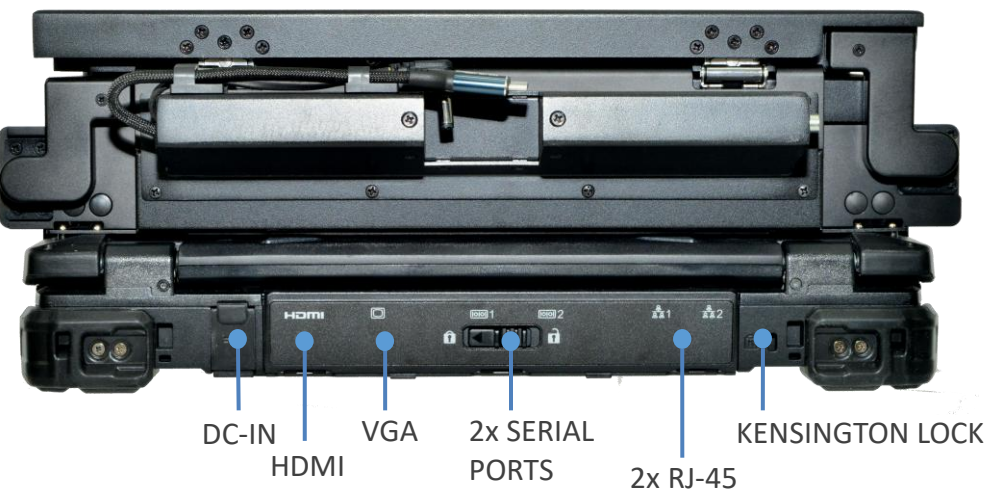


Storage Extension
with RAID 0/1/5/10



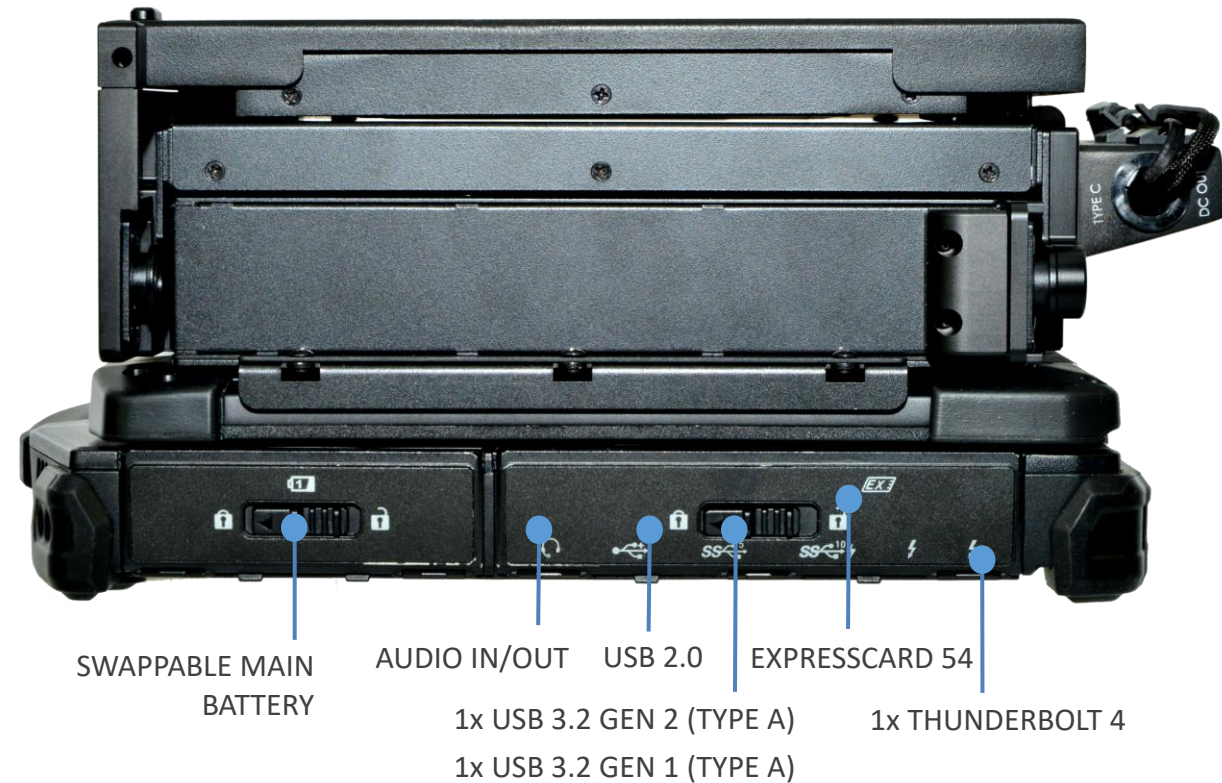
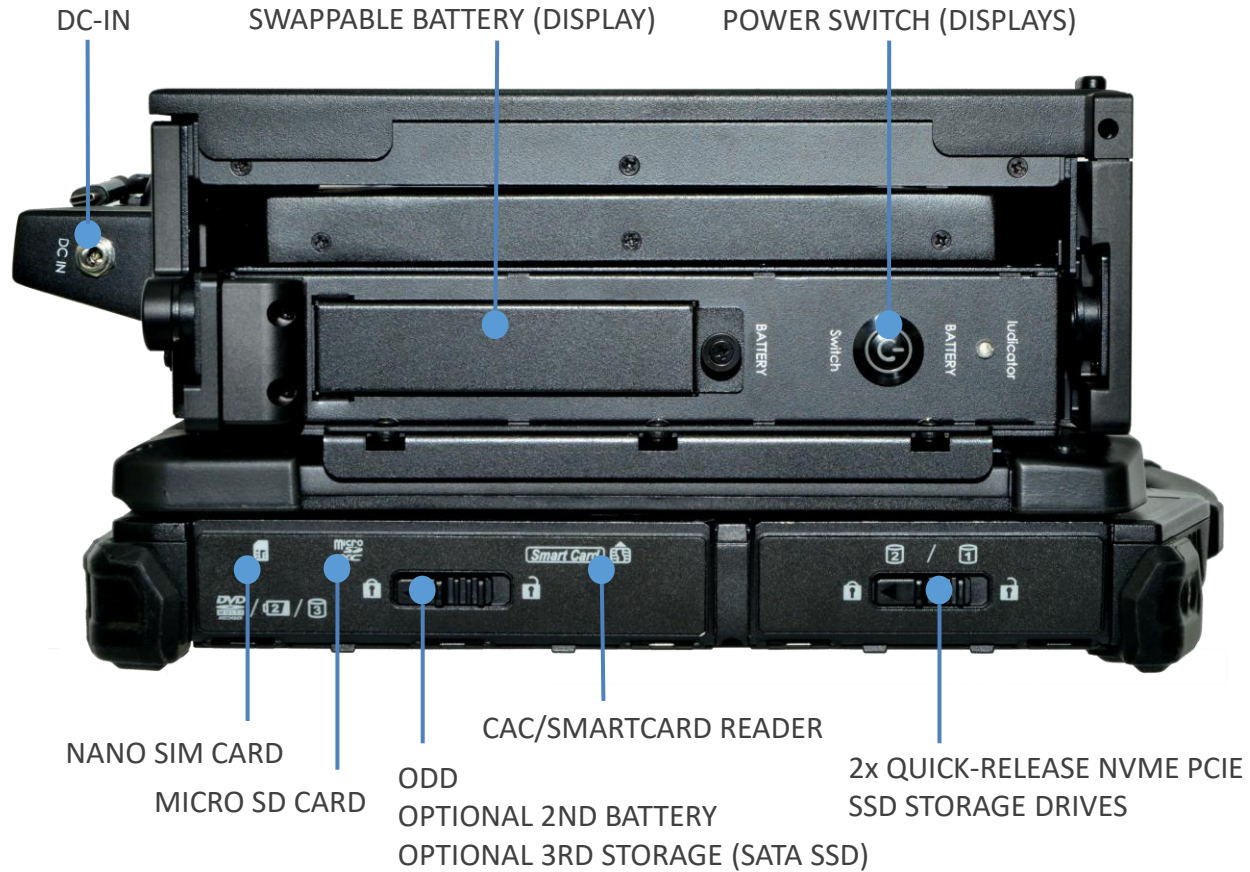
The Z14I-DX3's configuration possibilities assure users of the **power, flexibility, functionality and data security** they need for their specific applications.

Z14I-DX3 ANATOMY



Z14I-DX3 ANATOMY

◀ LEFT RIGHT ▶



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