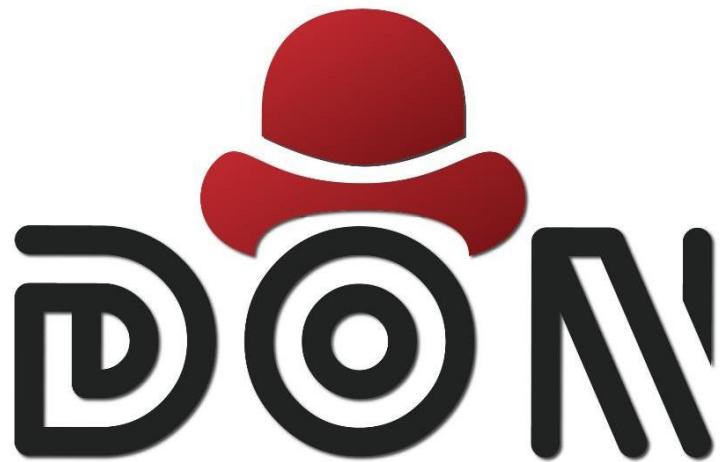


September 2025



## Workforce laptop research

Festus Alpheus  
DON GROUP IT SUPPORT

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## 1. THE HP ZBOOK FIREFLY 14 G11

The HP ZBook Firefly 14 G11 is a lightweight mobile workstation featuring the Intel® Core™ Ultra 7 155H processor, designed for professionals needing power and portability for demanding tasks like 3D modeling and video editing. It combines a durable, sleek design with AI-accelerated performance, DDR5 memory, and options for integrated or discrete NVIDIA® professional graphics for enhanced productivity and collaboration.

### 1.1 Key features and strengths

- a. Processor: Intel® Core™ Ultra 7 155H, offering a balance of high performance and power efficiency for complex business workloads.
- b. AI-Accelerated Performance: The processor and architecture use Artificial intelligence to dynamically anticipate needs, improving efficiency and battery life for seamless project management.
- c. Portability: It is a sleek and durable 14-inch device, starting at a lightweight 1.4 kg, making it ideal for professionals working from various locations.
- d. Graphics: Options include both integrated Intel Arc graphics and discrete NVIDIA® RTX A500 GPUs, optimized for professional applications.
- e. Memory and Storage: Available with DDR5 memory and NVMe SSD storage for fast responsiveness and handling large files.
- f. Display: Features a 14-inch 16:10 aspect ratio display, with options like the color-accurate HP DreamColor display.
- g. Connectivity: Includes essential ports such as Thunderbolt 4, USB-A, HDMI, and an audio jack for comprehensive connectivity.
- h. Collaboration Tools: Comes with integrated Poly technologies for enhanced webcam and audio quality during virtual meetings.

#### Target User:

This workstation is ideal for engineers, architects, video editors, and other professionals who require a high-performance, portable solution to handle demanding tasks beyond basic office work.

### 1.2 Pros and cons

#### Pros

- ⊕ Built-for-business features: Comes with enterprise-level security, including HP Wolf Pro Security Edition (on some models) and biometric sign-in options.
- ⊕ Upgradeability: The RAM and SSD are user-replaceable, which is a major advantage over competitors like the Dell Precision 5490.
- ⊕ High-quality display: Optional HP DreamColor display offers vibrant colors and a high refresh rate, ideal for content creation.
- ⊕ Portable design: With a starting weight of 1.41 kg, it's a lightweight and durable workstation.
- ⊕ Comfortable keyboard: Reviewers praise the keyboard for its satisfying feel.
- ⊕ AI-ready CPU: The Intel Core Ultra 7 155H processor with a dedicated NPU can accelerate AI-powered workflows.

#### Cons

- ⊕ Performance vs. competitors: Benchmarks show the ZBook Firefly lags behind some rivals, like the Dell Precision 5490, particularly in graphics performance.
- ⊕ Inconsistent battery life (discrete GPU model): Models with the discrete NVIDIA RTX A500 GPU may experience shorter battery life. Some users report only 4–5 hours of real-world use.
- ⊕ Thermal management issues: Some users report that the laptop can run hot under heavy loads, and the fans can be loud.

- ⊕ Limited graphics power: The optional NVIDIA RTX A500 is an entry-level workstation GPU and may not be sufficient for complex 3D modeling tasks.
- ⊕ Bloatware: The inclusion of HP Wolf Security has been a source of frustration for some users due to performance issues.
- ⊕ Ideal for
- ⊕ Business professionals and designers: Handles office productivity software, 2D design, and light 3D workflows with ease.
- ⊕ Students: Certified for professional applications and suitable for careers in engineering, science, or the arts.
- ⊕ Hybrid workers: Features like the 5MP webcam, AI noise suppression, and portability make it well-suited for a mix of remote and office work.

### 1.3 Pricing.

NEW-ITEM] Nanodog New Item HP ZBook Firefly 14 G11, Intel® Core™ Ultra 7 155H Processor (24M Cache, up to 4.80 GHz), 14" WUXGA Bent LCD UWVA antiglare WLED, 300 nits, NTSC 45% for 5MP Camera (1920 x 1200), 32GB DDR5-5600 (2x16GB) - 2 SLOT / MAX 64GB, 1TB PCIe NVMe Value, No Optical Drive, NVIDIA® RTX A500 (4GB GDDR6 dedicated), Windows® 11 Pro-(NBHPB2ZW8ES)	1.00 Units N\$ 29,100.00	15% N\$ 29,100.00
ETA 10 TO 14 WORKING DAYS ETA 4 TO 6 WEEKS IF SUPPLIERS DONT STOCK		VAT exclusive

## 2. ASUS PROART PX13

The ASUS ProArt PX13 is a powerful and portable 2-in-1 convertible laptop designed for creators who need high performance on the go. Reviewers praise its AMD Ryzen AI CPU, discrete Nvidia graphics, and beautiful 3K OLED display, though battery life can be inconsistent and the fans may run loud under heavy load.

### 2.1 Key features and strengths

- a. Powerful Performance: Equipped with an AMD Ryzen AI 9 HX 370 CPU and an NVIDIA RTX 4050 or 4060 GPU, the PX13 delivers workstation-level power for demanding creative tasks like photo and video editing.
- b. Stunning OLED Display: The 13.3-inch 3K OLED display offers exceptional color accuracy (100% sRGB, 96% Adobe RGB), crisp text, and is stylus-compatible for sketching and retouching, making it ideal for visual work.
- c. Premium & Versatile Design: The 2-in-1 convertible design allows for use as a traditional laptop, tablet, or tent mode, enhancing its versatility for creators on the go.
- d. High-End Build Quality: The laptop features a sturdy, premium aluminum chassis that has passed MIL-STD 810H durability tests, ensuring a reliable and robust feel.

- e. Good Port Connectivity: It includes useful ports such as USB4, HDMI, a microSD card slot, and a headphone jack for connecting external devices.

**Target User:**

The ASUS ProArt PX13 is an excellent choice for professional content creators, photographers, and designers who need a compact, powerful, and versatile workstation they can take anywhere.

## 2.2 Pros and cons

### Pros

- ⊕ Powerful components in a compact design. It is remarkably lightweight and portable for a machine that packs a high-performance AMD Ryzen AI 9 HX 370 processor and a dedicated NVIDIA GeForce RTX 40 Series GPU.
- ⊕ Stunning and color-accurate OLED display. The 13.3-inch 3K ASUS Lumina OLED touchscreen is color-accurate and vibrant, making it ideal for creative work like photo and video editing.
- ⊕ Versatile 2-in-1 design. The 360-degree hinge allows for use in various modes, including a traditional laptop, a tablet for drawing, or a tent for media consumption.
- ⊕ Robust build quality. Constructed with a "nano-black" aluminum finish, the chassis is sleek, sturdy, and has passed military-grade durability tests.
- ⊕ Excellent performance for creative tasks. With its powerful CPU and GPU, the PX13 can handle demanding applications and AI-accelerated workflows for creators and power users.
- ⊕ ASUS DialPad. The integrated virtual DialPad on the touchpad offers precise and customizable controls for creative software, which can streamline workflows.
- ⊕ Ample RAM. With 32GB of soldered LPDDR5X RAM standard, users have enough memory for intensive creative applications.
- ⊕ Good port selection. Despite its small size, it includes two USB-C ports with Power Delivery support, a USB-A port, HDMI, and a microSD card reader.

### Cons

- ⊕ Subpar battery life. Many reviews indicate disappointing battery life, particularly when performing demanding creative tasks. It falls short compared to other modern ultraportables, especially Arm-powered rivals.
- ⊕ Loud fans underload. While the cooling system is effective, the fans can become noisy during intensive workflows, a common trade-off for cramming powerful hardware into a small chassis.
- ⊕ Display refresh rate limited to 60Hz. For a premium, modern laptop, the 60Hz screen is a missed opportunity and may disappoint users, such as gamers or those who prefer a smoother visual experience.
- ⊕ Wi-Fi issues. Some models with the MediaTek Wi-Fi 7 card have been reported to have occasional connectivity problems.
- ⊕ Bulky proprietary charger. While USB-C charging is supported, the included 200W charger is large and has a short cable, which can be inconvenient for travel.
- ⊕ DialPad can be inconsistent. Some reviewers found the integrated DialPad to be laggy and finicky, taking a significant amount of time to get used to.
- ⊕ Soldered RAM and single SSD slot. While the standard 32GB of RAM is sufficient for most, it is soldered and cannot be upgraded. Additionally, it has only a single M.2 slot for storage.
- ⊕ Glossy screen. The display's glossy finish is prone to glare and reflections, particularly in well-lit environments or when used outdoors.

### 2.3 Pricing.

Windows 11 Pro 13.3-inch 16:10 OLED display 32GB RAM 1TB SSD Storage AMD Ryzen™ AI 9 HX370 processor NVIDIA® RTX™ 4070 graphics 3 Year Warranty (Upon Registration)	1.00 Units N\$ 47,825.22	15% N\$ 47,825.22
		VAT exclusive

## 3. LENOVO LOQ RYZEN 7-250 RTX

The Lenovo LOQ (15AHP10) with an AMD Ryzen 7-250 and NVIDIA GeForce RTX 5060 is a mid-range laptop featuring an 8-core processor, an 8GB RTX 5060 GPU, a 15.6-inch 144Hz 1080p IPS G-SYNC display, DDR5 memory, and a 1TB SSD. It includes a white-backlit keyboard, a 5MP webcam with an e-shutter, Nahimic Audio, Wi-Fi 6E, and supports Lenovo's AI Engine+ for boosted performance.

### 3.1 Key features and strengths

- a. Performance: The combination of a powerful Ryzen 7 processor and a mid-range RTX 5060 GPU means the laptop can handle modern AAA titles smoothly at 1080p and 1440p resolutions. The Lenovo AI Engine+ automatically optimizes performance for a consistent gaming experience.
- b. Cooling system: The Hyperchamber Cooling Technology uses turbo fans and copper heat pipes to maintain low temperatures during intense gaming sessions.
- c. Design: The laptop has a sturdy, all-plastic "Luna Grey" chassis with minimal gamer aesthetics, making it suitable for both gaming and professional settings.
- d. Display: A high refresh rate (144Hz) 15.6" FHD IPS display with G-Sync support is standard on many models. Some configurations also offer a WQHD (1440p) display.

#### Target User:

The Lenovo LOQ Ryzen 7-250 RTX is designed for a target audience that wants solid performance at an accessible price point, without the premium cost of a high-end Legion or other flagship models.

### 3.2 Pros and cons

#### Pros

##### Performance

- ⊕ Strong performance value: The combination of the AMD Ryzen 7-250 CPU and the NVIDIA GeForce RTX 5060 GPU delivers smooth and consistent gaming at 1080p and 1440p resolutions.
- ⊕ AI-tuned performance: The Lenovo AI Engine+ automatically optimizes CPU, GPU, and system settings to improve frame rates, providing hassle-free performance.
- ⊕ Robust cooling: Lenovo's Hyperchamber Cooling Technology with turbo fans keeps the system cool during heavy gaming sessions, with minimal thermal throttling reported.

##### Design and features

- ⊕ Minimalist aesthetics: The "Luna Grey" chassis has a clean, professional look that doesn't scream "gaming laptop," making it suitable for both school and work.

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- ⊕ Pleasant keyboard: The keyboard offers a comfortable and tactile typing experience, with a decent amount of key travel for both gaming and productivity.
- ⊕ User-upgradable: The laptop includes two M.2 storage slots and dual RAM slots, making it easy to upgrade memory and storage.
- ⊕ Convenient port placement: Most ports are located on the back of the laptop, which helps keep cables tidy and organized during a gaming or work session.

### Cons

#### Build and ergonomics

- ⊕ Cheaper build quality: The all-plastic chassis and slightly creaky build are noticeable cost-saving measures. The touchpad is functional but can feel cheap and plasticky.
- ⊕ Limited display options: Standard configurations may come with a 1080p display that has lower color accuracy and brightness compared to more premium options.
- ⊕ Bulky and heavy: The laptop is quite heavy, especially when carrying it with the power adapter, making it less portable for users constantly on the move.
- ⊕ Limited webcam features: The webcam is a basic 1080p model that can be fuzzy in low-light conditions. While there is a physical e-shutter for privacy, it is not a premium camera.

#### Performance and features

- ⊕ Poor battery life: The battery life is significantly impacted during gaming, lasting less than an hour in some tests. For general use, you will also need to keep the charger handy.
- ⊕ No Thunderbolt support: The single USB-C port does not support higher-speed Thunderbolt 4 or USB4 connections, which limits peripheral options.
- ⊕ Boxy speakers: The speakers lack bass and sound boxy, so you may want to use a headset for a better audio experience.

### 3.3 Pricing.

CPU: AMD Ryzen 7-250 (3.3GHz   8-Cores   16-Threads ) Memory: 16GB DDR5-5600   1x 16GB   1x Open Slot Storage: 1TB NVMe SSD   PCIe 4.0   1x Extra Open M.2 Slot Graphics: GeForce RTX 5060   8GB GDDR6 Display: 15.6" FHD IPS   1920x1080   144Hz   G-Sync Keyboard: White Backlit Gaming Keyboard with Numpad Connectivity: WiFi 6E   Bluetooth 5.1   Ethernet Operating System: Windows 11 Home	1.00 Units N\$ 27,000.00	15% N\$ 27,000.00
ETA 10 TO 14 WORKING DAYS ETA 4 TO 6 WEEKS IF SUPPLIERS DONT STOCK		VAT exclusive

## 1. Overview Comparison Table of current vs the other 3 laptops

Feature	Current Office Laptop (HP 15-fd0xxx)	HP ZBook Firefly 14 G11	ASUS ProArt PX13	Lenovo LOQ Ryzen 7-250 RTX
Processor	Intel Core i7-1355U (10-core, low-power "U" series)	Intel Core Ultra 7 155H (AI-optimized, higher-power "H" series)	AMD Ryzen AI 9 HX 370 (high-end, AI CPU)	AMD Ryzen 7-250 (8-core, gaming-grade CPU)
Graphics	Intel Iris Xe (integrated)	NVIDIA RTX A500 (4 GB) or Intel Arc	NVIDIA RTX 4050/4060 (6–8 GB)	NVIDIA RTX 5060 (8 GB)
RAM	16 GB DDR4 @ 3200 MT/s	32 GB DDR5 (5600 MT/s, upgradable)	32 GB LPDDR5X (soldered)	16 GB DDR5 (5600 MT/s, upgradable)
Storage	477 GB SSD	1 TB NVMe SSD	1 TB SSD	1 TB NVMe SSD
Display	15.6" FHD (60 Hz, basic)	14" WUXGA DreamColor (300 nits, color-accurate)	13.3" 3K OLED (100% sRGB, stylus support)	15.6" FHD 144 Hz IPS (G-Sync)
GPU Performance	Basic, suitable only for office tasks	Entry-level workstation GPU	Mid-range creator GPU	Mid-range gaming GPU
AI/ML Capabilities	None	Yes (NPU built-in)	Yes (AI-accelerated Ryzen AI 9)	Limited (AI Engine+)
Build & Portability	Plastic, ~1.6 kg	Aluminum, 1.4 kg	Metal, 1.3 kg (2-in-1)	Plastic, ~2.4 kg
Upgrade Options	Limited	RAM + SSD replaceable	None (RAM soldered)	RAM + SSD replaceable
Battery Life	6–8 hrs typical	6–10 hrs (varies)	4–7 hrs	3–5 hrs (under load)

Feature	Current Office Laptop (HP 15-fd0xxx)	HP ZBook Firefly 14 G11	ASUS ProArt PX13	Lenovo LOQ Ryzen 7-250 RTX
Price (est.)	~N\$ 15,000 (market equivalent)	N\$ 29,100	N\$ 47,825	N\$ 27,000

## 2. Key Performance Comparison

Category	Current HP 15-fd0xxx	Upgrade Benefit
CPU Power	i7-1355U is a low-wattage business CPU – great for office tasks, not for data analysis or design.	All three alternatives use <b>high-performance CPUs (H-series or HX)</b> with up to <b>double the performance</b> and <b>AI acceleration</b> for multitasking, design, and computation-heavy work.
Graphics Power	Integrated Intel Iris Xe (basic) – cannot handle 3D modeling, rendering, or GPU acceleration well.	Each of the alternatives includes a <b>dedicated GPU (RTX series)</b> —up to <b>30x faster</b> in graphics workloads.
Memory Speed	DDR4 @ 3200 MHz	DDR5/LPDDR5X @ 5600 MHz – about <b>70% faster memory bandwidth</b> for heavy workloads.
Storage	480 GB SSD	1 TB NVMe SSD – double the capacity and faster throughput.
Display Quality	Basic FHD panel	Higher-end, color-accurate, and faster-refresh displays ideal for design, media, and data visualization.
Durability & Design	Consumer build	ZBook and ProArt have <b>military-grade durability</b> and <b>enterprise-grade security</b> features.

## 3. Overall Recommendation

Role	Recommended Laptop	Why
IT Support & Admins	HP ZBook Firefly 14 G11	Professional durability, AI CPU, strong performance for admin, audit, and multitasking, plus enterprise security.
Designers / Content Creators	ASUS ProArt PX13	Best display, AI Ryzen 9 CPU, and powerful RTX 4050/4060 GPU for rendering, creative design, and editing.
Developers / Engineers / Data Analysts	Lenovo LOQ Ryzen 7-250 RTX	Strong GPU and CPU performance for coding, simulations, and data-heavy workloads, upgradable memory, great value.

#### 4. Summary for Management

The **current HP Laptop 15-fd0xxx** is a general office computer suitable for basic tasks (email, MS Office, browsing).

It lacks the **processing, graphics, and AI acceleration** needed for today's **IT, data, design, and support workflows**.

**Upgrading to the new workstation models would provide:**

- 2x–4x faster performance** for multitasking and heavy workloads
- Dedicated GPUs** for creative, design, and analytical software
- Future-proof AI hardware** for automation and efficiency
- Improved durability, portability, and battery life**
- Better long-term value** and fewer replacements