**msi**

# MSI Crosshair A16 HX D7WFKG-042UK AMD Ryzen™ 9 7945HX Laptop 40.6 cm (16") Quad HD+ 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6E (802.11ax) Windows 11 Home Grey

**Brand :** MSI

**Product family:** Crosshair

**Product code:** CROSSHAIR A16 HX D7WFKG-042UK

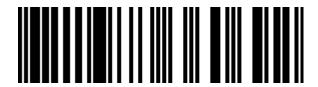**Product name :** Crosshair A16 HX D7WFKG-042UK

- Game like never before with the latest AMD Ryzen™ 9 7945HX Processor, featuring the latest Zen 4 architecture, gamers can now harness the power of ultimate performance on the processor built for gaming and more
- The QHD+ panel delivers stunning visual clarity while its 240Hz refresh rate ensures fluid and smooth on-screen motion, providing an immersive and responsive gaming experience.
- Experience the radiating vibrant lights of 24-Zone RGB Keyboard featuring illuminated WASD keys and uniquely designed keycaps for an immersive gaming journey infused with style!
- With support for up to 2 SSDs and blazing-fast transfer speeds, the Crosshair Series delivers extreme data performance along with unmatched gaming and multitasking capabilities. Experience peak efficiency for all your workloads.

AMD Ryzen 9 7945HX (80MB Cache, 2.5GHz), 16GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 IPS-Level, AMD Radeon 610M, NVIDIA GeForce RTX 5060 (8GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home

## Design

| | |
|---|---|
| Colour name | Cosmos Gray |
| Product type * | Laptop |
| Product colour * | Grey |
| Form factor * | Clamshell |
| Original brand name | MSI |

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 2560 x 1600 pixels |
| Touchscreen * | ✘ |
| HD type | Quad HD+ |
| Panel type | IPS-Level |
| Native aspect ratio | 16:10 |
| RGB colour space | DCI-P3 |
| Colour gamut | 100% |
| Maximum refresh rate | 240 Hz |

## Processor

| | |
|---|---|
| Processor manufacturer * | AMD |
| Processor family * | AMD Ryzen™ 9 |
| Processor generation | AMD Ryzen 7000 Series |
| Processor model * | 7945HX |
| Processor cores | 16 |
| Processor threads | 24 |
| Processor boost frequency | 5.4 GHz |
| Processor frequency * | 2.5 GHz |
| Processor cache | 80 MB |
| Processor cache type | L2 & L3 |

## Memory

| | |
|---|---|
| Internal memory * | 16 GB |
| Internal memory type | DDR5-SDRAM |
| Memory clock speed | 5200 MHz |
| Memory layout (slots x size) | 2 x 8 GB |

## Camera

| | |
|---|---|
| Front camera HD type | HD |
| Video capturing speed | 30 fps |
| Privacy camera | ✔ |
| Privacy type | Privacy shutter |

## Network

| | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) |
| Mobile network connection * | ✘ |
| WLAN controller model | AMD RZ616 |
| WLAN controller manufacturer | AMD |
| Ethernet LAN | ✔ |
| Ethernet LAN data rates | 10,100,1000 Mbit/s |
| Bluetooth | ✔ |
| Bluetooth version | 5.3 |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 3 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| Combo headphone/mic port | ✔ |
| USB Type-C DisplayPort Alternate Mode | ✔ |

## Performance

| | |
|---|---|
| Motherboard chipset | Intel SoC |

## Keyboard

| | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✔ |
| Keyboard backlit | ✔ |

## Memory

| | |
|---|---|
| Memory slots | 2x SO-DIMM |
| Maximum internal memory * | 96 GB |

## Storage

| | |
|---|---|
| Total storage capacity * | 1 TB |
| Storage media * | SSD |
| Total SSDs capacity | 1 TB |
| Number of SSDs installed | 1 |
| SSD capacity | 1 TB |
| SSD interface | PCI Express 4.0 |
| NVMe | ✔ |
| SSD form factor | M.2 |
| Optical drive type * | ✘ |

## Graphics

| | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA GeForce RTX 5060 |
| Discrete graphics card memory | 8 GB |
| Discrete graphics memory type | GDDR7 |
| On-board graphics card * | ✔ |
| On-board GPU manufacturer | AMD |
| Discrete graphics card * | ✔ |
| On-board graphics card family | AMD Radeon Graphics |
| On-board graphics card model * | AMD Radeon 610M |
| NVIDIA G-SYNC | ✔ |

## Audio

| | |
|---|---|
| Number of built-in speakers | 2 |
| Speaker power | 2 W |

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera resolution | 1280 x 720 pixels |

## Keyboard

| | |
|---|---|
| Keyboard backlit colour | RGB |
| Keyboard backlit zone | 24-zone RGB |
| Copilot key | ✔ |

## Software

| | |
|---|---|
| Operating system installed * | Windows 11 Home |

## Battery

| | |
|---|---|
| Number of battery cells | 4 |
| Battery capacity * | 90 Wh |

## Power

| | |
|---|---|
| AC adapter power | 240 W |
| USB Type-C charging port * | ✔ |
| USB Power Delivery (USB PD) | ✔ |

## Security

| | |
|---|---|
| Cable lock slot | ✔ |
| Cable lock slot type | Kensington |
| Trusted Platform Module (TPM) | ✔ |
| Trusted Platform Module (TPM) version | 2.0 |

## Weight & dimensions

| | |
|---|---|
| Width | 359 mm |
| Depth | 266.4 mm |
| Height (front) | 2.18 cm |
| Height (rear) | 2.79 cm |
| Weight * | 2.5 kg |

## Packaging data

| | |
|---|---|
| Package width | 489 mm |
| Package depth | 9.3 mm |
| Package height | 315 mm |

## Packaging content

| | |
|---|---|
| AC adapter included * | ✔ |

## Other features

| | |
|---|---|
| Warranty period | 2 year(s) |

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