

Powerful graphics and 7 USB ports support provide excellent performance for daily



24/7 Reliability



DDR5
Memory



Triple
Storage



PCIe 4.0x4
M.2 SSD



HDMI CEC



USB 4



2.5G LAN



Wi-Fi 6E
802.11ax



Anti-Dust
Self-Cleaning



PD Input



AI
noise-canceling



8K



4 Displays

Maximum possibilities in only 0.9L compact size

- Powered by AMD Ryzen™ 6000H Series Processor with Radeon™ graphics
- Performance of Radeon™ graphics is better than entry-level discrete graphics
- DDR5-4800 memory support allows your computer to transfer data faster than DDR4
- Support two PCIe Gen4x4 SSD to deliver greater performance and lower latency
- 4 display located in the rear I/O panel including dual HDMI2.1
- Onboard 2.5GbE LAN delivering faster Ethernet connectivity

ExpertCenter series features:

Trustworthy

- Tested to MIL-STD-810H military standard to ensure it's ready for harsh environments
- 24/7 testing reduce maintenance cost and improve cost effectiveness
- Padlock-ring design for more security
- Eco-friendly design, recipients EPEAT Silver and ENERGY STAR

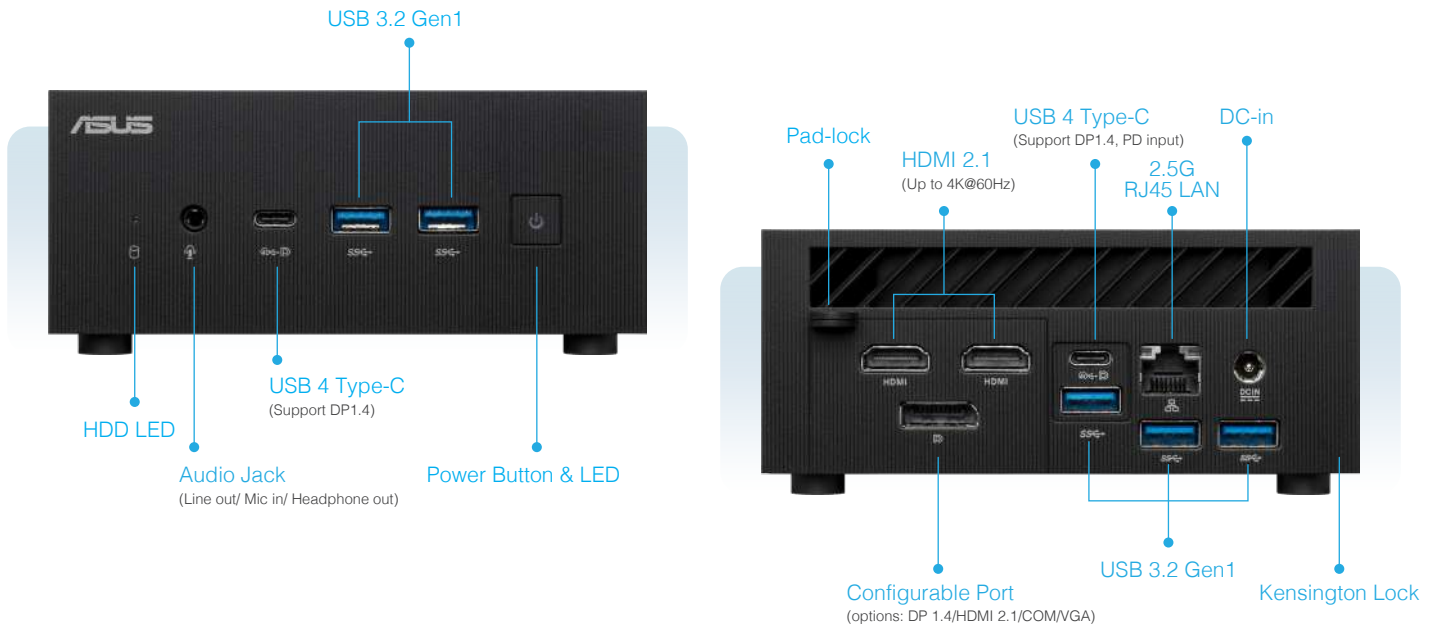
Professionalism

- Providing the flexibility to operate fan mode depends on your needs
- ASUS Control Center option for IT Management
- Two-Way AI Noise Cancellation provides crystal-clear online voice communication

Efficiency

- One configurable port support (options: Display Port 1.4/ HDMI2.1/ COM/ VGA)
- A total of 7 USB ports to connect external devices
- 2 easy steps optimization and upgrade

Over view:



Accessories list:



- Power Cord
- AC Adapter (80cm)
- Quick Start Guide & Warranty Card
- VESA Mount Kit (Optional)
- Keyboard & Mouse (Optional)
Wired / Wireless

Feature table:

| Power | |
|-------------------------|---|
| PD input | Y |
| Extended Power Button | N |
| BIOS | |
| AC Power loss | Y |
| HDMI-CEC | Y |
| CrashFree | Y |
| EZ Flash | Y |
| BIOS Customization | Y |
| PXE/WOL | Y |
| USB Single Port Control | Y |

| Security | |
|---------------------------|----------|
| fTPM 2.0 | Y |
| dTPM 2.0 | optional |
| Kensington lock | Y |
| Pad-lock | Y |
| Chassis Intrusion | N |
| Reliability | |
| 24/7 Durability Test | Y |
| Military-grade Durability | Y |
| Anti-Surge | Y |
| Fanless | N |

| Remote | |
|-----------------------------|----------|
| ASUS Control Center | optional |
| Watchdog timer | optional |
| ASUS Cooperate Stable Model | N |
| MyLogo | N |
| MyASUS / CSM | |
| Smart Fan Control | Y |
| AI Noise Cancelation | Y |
| Wi-Fi Smart Connect | Y |

| | | |
|-------------------------|---------------------|---|
| Model | | ASUS ExpertCenter PN53 |
| OS | | Windows®11 64bit, Windows®11 Pro 64bit, Linux, or W/O OS (Please check with local rep on validated Linux version) |
| CPU | | AMD Ryzen™ 9 6900HX, Ryzen™ 7 6800H, Ryzen™ 5 6600H (cTDP:35W) |
| Chipset | | Integrated |
| Graphics | | Integrated - AMD Radeon™ Graphics 680M (R9/R7) or 660M (R5) |
| Memory | | 2 x DDR5 SO-DIMM slots for DDR5 4800 MHz, 1 x 8GB - 2 x 16GB (total) |
| Storage | | 1 x 6Gb/s SATA connector for 2.5" 1TB HDD/SSD* 2 x M.2 2280 PCIe Gen4 slot for 256GB - 2TB SSD* (NVMe only) *For higher capacity please refer to QVL (location: official website → Support → CPU / Memory Support) |
| Wireless Network | | Wi-Fi 6E or Wi-Fi 6 and Bluetooth 5 |
| LAN | | Intel® LAN, 10/100/1000/2500 Mbps Supports Wake on LAN / PXE / Auto Power on / RTC Wake |
| Interface | Front I/O | 1 x USB 4 Type-C (40 Gbps, support DP1.4) 2 x USB 3.2 Gen1 (5 Gbps) 1 x Audio Jack(Line out/ Mic in/ Headphone out) *All data transfer speed is according to ASUS testing result, actual performance may vary depending on objective environmental changes. |
| | Side I/O | 1 x Kensington Lock |
| | Rear I/O | 1 x USB 4 Type-C (40 Gbps, support DP1.4, PD input*) 3 x USB 3.2 Gen1 2 x HDMI 2.1 Port** 1 x Configurable Port (options: Display Port 1.4/ HDMI2.1/ COM/ VGA) 1 x Intel LAN (RJ45) 1 x Padlock ring **Power supply device need to support Power Delivery & at least 100W output. **Up to 4K resolution at 60Hz, full HDR support, HDCP 1.4 & 2.3. |
| TPM | | fTPM 2.0 or TPM 2.0 chip (Optional) |
| BIOS Function | | 64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.8, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Quick Note and ASUS DRAM SPD (Serial Presence Detect) memory information |
| Software | | The following software are included in OS: MyASUS, ASUS Product registration program, Asus Control Center test, Watchdog timer |
| Power Supply | | 19Vdc, 6.32A, 120W (i7-12700H/ i5-12500H) 19Vdc, 4.74A or 19.5Vdc, 4.62A 90W (i3-1220P) |
| Physical | Dimension | 120 x 130 x 58 mm (0.9L) |
| | Weight | 0.75 kg (barebone) |
| Max Resolution | HDMI | 7680 x 4320 @ 60Hz |
| | DP | 5120 x 2160 @ 60Hz |
| | VGA | 1920 x 1200 @ 60Hz |
| Temperature | Operating | 0°C~50°C |
| | Storage | -40°C~85°C |
| Humidity | | 0%~95% Relative Humidity |
| Acoustic | Idle mode | <25 dBA |
| | Full loading | <35 dBA * Test results will vary slightly depending on the HDD/SSD SKU selected by customer |
| Certificates | | BSMI / CB / CE / FCC / UL / CCC / Energy Star / C-Tick / WiFi / RF / VCCI |