



# ExpertCenter P500 SFF

P500SV  
MP Sales Kit

July 2025

# Born for SMB

Introducing New P series



## Positioning

ExpertCenter  
P series = A Perfect Fit  
for SMB

## Target Audience

### SMB Customers

- Under 200 employees
- Limited IT resources
- Limited budget
- Tend to purchase from retail market
- Basic needs for customization

# Why ASUS P500

## SMB Profile

- Under 200 employees
- Tend to purchase from retail market
- Basic needs for customization
- Purchase price sensitive

## SMB Pain Point

- Limited budget
- Limited IT resources (or no IT department )
- Difficulties in AI transformation

## What P500 offers

- Performance that meet SMB needs
- Best Cost-performance ratio among same price-band\*
- AI-powered productivity: Exclusive ASUS AI ExpertMeet
- Business-grade security: ASUS ExpertGuardian

## What's more

- Extreme thermal solutions for higher, stable performance up to 45W
- Energy-efficient productivity with no compromise on performance
- Quiet operation for peace of mind
- Worry-free aftersales experience: ASUS Business Support\*

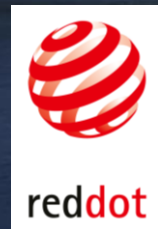
# Honoring Excellence with Award-Winning Design

## ASUS ExpertCenter Series

ASUS ExpertCenter series stands out with its exceptional design and innovation, earning prestigious international awards such as the Golden Pin Design Award, iF Design Award, and Red Dot Design Award. These accolades not only highlight ASUS's leadership in design and functionality but also demonstrate its commitment to delivering high performance, reliability, and eco-friendly designs. Whether for business or personal use, ASUS ExpertCenter series offers an outstanding user experience and value.



iF Design  
Award



Red dot  
Award



Golden Pin  
Design Award





# ASUS ExpertCenter P500 SFF

## Superior Performance with Highest Efficiency

Up to Intel Core i7 Processor. **28%** faster performance compared to others in the same range

Lower noise level at about **21.1~30.8 dB**

Lower operating cost with up to **37%** lower power usage

## AI-Powered productivity

Up to **NVIDIA® RTX™ A400 graphics** with AI-accelerated performance for demanding visual tasks  
ASUS Expert series exclusive **ASUS AI ExpertMeet for meeting**

## Dependable Durability & Security

**ASUS ExpertGuardian** business-grade security.

**Free 1-year McAfee+ Premium** membership

## Flexibility Scalability

Tool-less design with 3.5" hard drive, PCIe slot, and M.2 2280 slot for maximum flexibility and expandability

## Ultracompact powerhouse



Up to NVIDIA® RTX™ A400 Comprehensive graphics I/O ports



Up to 64GB Dual channel DDR5 5600MHz



HDD and SSD Dual storages

## Whisper-quiet operation



Intel® Core™ i7 processor operates at just **30.8 dB** in Performance fan mode



Tool-free design



ISV certified

\* Specification is optional or only available with select models



## MIL-STD 810H

Tests for durability



Up to  
**Intel® Core™ i7**  
processor



## Windows 11



ASUS ExpertCenter P500 SFF

## Exceptional Value and Performance for Businesses



Sustainable design



100% Solid capacitors



World's No. 1 motherboard

## AI for Business



Copilot



Translation



Meeting summary



Transcript



AI audio optimizer

## Enterprise-grade Security



BIOS/HDD password



Kensington® slot/padlock



TPM 2.0 Chip

# Feature Overview

## ExpertCenter P500 SFF

| Design / User Experience                                                                                                                                                                                                                                                                        | Security                                                                                                                                                                                                                                                  | Performance                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Swappable front bezel</li><li>• System status/LAN indicator</li><li>• SD card reader 2.0 (optional)</li><li>• Revamped tool-free design</li></ul>                                                                                                       | <ul style="list-style-type: none"><li>• Kensington lock slot</li><li>• Self-healing BIOS</li><li>• NIST SP 800-155 Compliant</li><li>• Microsoft Secured-Core PC* (Level 2)</li><li>• Discrete TPM 2.0 chip</li><li>• ASUS ExpertGuardian suite</li></ul> | <ul style="list-style-type: none"><li>• Up to Intel® Core™ i7 processor</li><li>• Up to NVIDIA® RTX™ A400</li><li>• Up to 64G DDR5 5600MHz memory</li><li>• Up to 2TB HDD</li><li>• Dual M.2 SSD slot, up to two 2TB GEN4 SSD</li></ul> |
| Durability                                                                                                                                                                                                                                                                                      | Manageability                                                                                                                                                                                                                                             | Sustainability                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"><li>• <b>Optimized thermal design</b></li><li>• No.1 motherboard</li><li>• 100% solid capacitor</li><li>• <b>Military grade Mil-STD 810H (Test passed TBC)</b></li><li>• ASUS Superior Durability Test</li><li>• Reinforced structural construction</li></ul> | <ul style="list-style-type: none"><li>• ASUS Control Center</li><li>• ASUS UEFI BIOS (Commercial grade BIOS)</li><li>• MyASUS</li><li>• <b>McAfee+ Premium 1-year membership</b></li><li>• <b>Adobe 1 month deal</b></li></ul>                            | <ul style="list-style-type: none"><li>• <b>EPEAT Silver</b></li><li>• <b>Energy Star 9.0</b></li><li>• <b>90% recyclable packaging</b></li><li>• <b>Smart fan (PSU)</b></li><li>• ROHS</li></ul>                                        |

# Product Specifications

## ExpertCenter P500 SFF (P500SV)

|                        |                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chassis size           | 8.6L                                                                                                                                                                                                                                                                                         |
| Operation System       | Without OS   Pure OS<br>Windows 11 Pro - ASUS recommends Windows 11 Pro for business<br>Windows 11 Home - ASUS recommends Windows 11 Pro for business                                                                                                                                        |
| Processors             | Intel® Core™ i7-13620H Processor 2.4 GHz (24MB Cache, up to 4.9 GHz, 10 cores, 16 Threads)<br>Intel® Core™ i5-13420H Processor 2.1 GHz (12MB Cache, up to 4.6 GHz, 8 cores, 12 Threads)<br>Intel® Core™ i3-1315U Processor 1.2 GHz (10MB Cache, up to 4.5 GHz, 6 cores, 8 Threads)           |
| Discrete Graphic*      | NVIDIA® RTX A400 4GB GDDR6: 4x mini-DP                                                                                                                                                                                                                                                       |
| Integrated GPU         | Intel® UHD Graphics                                                                                                                                                                                                                                                                          |
| Memory                 | 2 x SO-DIMM Slot, Dual Channel DDR5 5600 MHz up to 64GB (system memory speed run at 4800-5200MHz)                                                                                                                                                                                            |
| Expansion Slot         | 1 x PCI Express 4.0 x16 (on i5 and i7 configurations, electric 8x data connection) / 1 x M.2 (support wifi) PCIe & CNVi colay                                                                                                                                                                |
| Storage                | 1 x 3.5" HDD up to 2TB 7200rpm (support HDD tool-free design)<br>2 x M.2 SSD, up to 2TB PCIe® 4.0 SSD                                                                                                                                                                                        |
| Wireless               | Without Wi-Fi Card (optional)<br>Wi-Fi6 CARD_2x2 AX (CNVi/PCIE) 802.11 AX WLAN + BT5.0(M.2), 2 x 2 Antenna w/Internal (optional)<br>Wi-Fi6 CARD_1X1 AX (CNVi/PCIE) 802.11 AX WLAN + BT5.0(M.2), 1 x 1 Antenna w/Internal (optional)                                                          |
| Front I/O              | 2 x Type A USB 3.2 Gen 1; 1 x Type C USB 3.2 Gen 1; 1 x combo audio jack (Black); 1 x SD card 2.0 (optional)                                                                                                                                                                                 |
| Rear I/O               | 1 x HDMI port 1.4 4K@30Hz for UMA; 1 x DP 1.4 HBR2<br>2 x USB 2.0 Type-A (Black) under RJ45, support USB K/B power on function<br>2 x USB 2.0 Type-A (Black); 1 x 1G LAN (RJ-45) port with LED indicator<br>3 x Audio jacks support 7.1 channel audio output (line in; line out; Microphone) |
| PSU                    | 180W power supply (TFX Single Output) (80+ Bronze)<br>330W power supply (TFX Single Output) (80+ Platinum)                                                                                                                                                                                   |
| Accessories (optional) | SD card reader 2.0<br>3.5 HDD ASSEMBLY KIT<br>2280 SSD ASSEMBLY KIT                                                                                                                                                                                                                          |
| Dimensions             | 296(D)x 93(W)x 309(H)mm                                                                                                                                                                                                                                                                      |
| Weight                 | Starting from 5kg (weight varies by configuration)                                                                                                                                                                                                                                           |

# Primed for Any Task

Up to 13th Gen

## Intel® Core™ i7

processor

Up to

## NVIDIA® RTX™ A400

discrete graphics

Up to

## 2 TB

HDD storage

Up to

## 2 TB

SSD storage

Up to

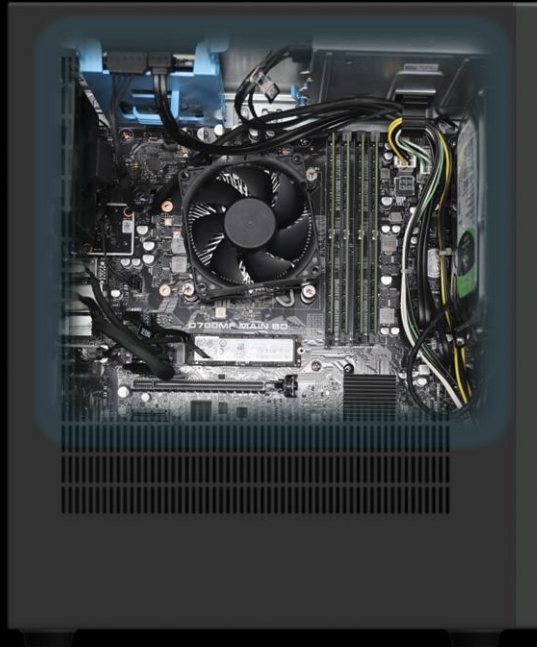
## 64 GB

DDR5 at 5600MHz



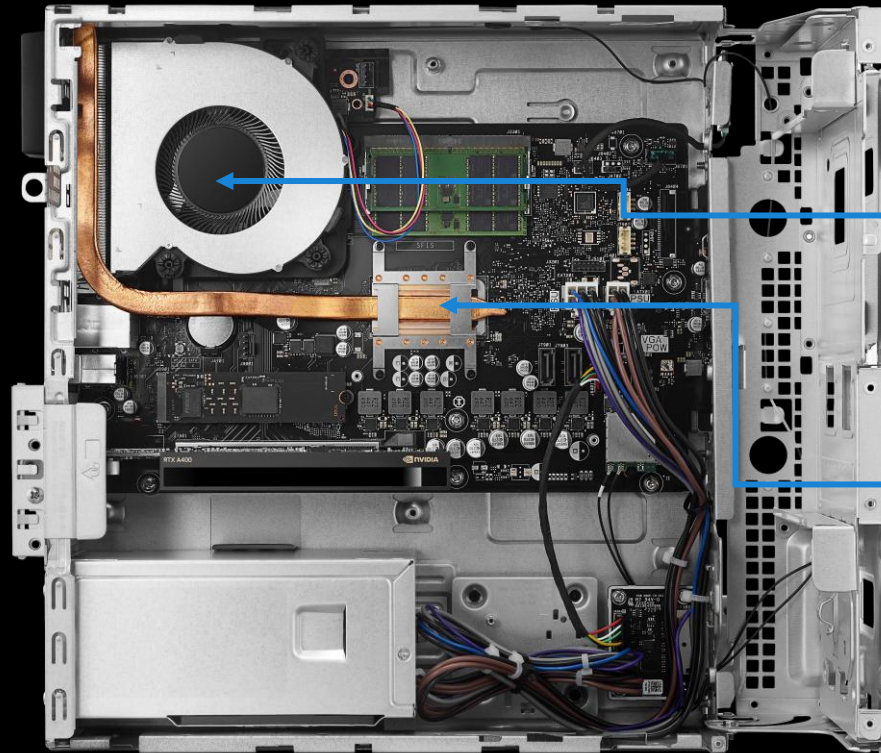
# Efficient Heat Expulsion by Advanced Design

Traditional DT thermal



Heat lingered in the chassis,  
delaying the dissipation time

P500SV thermal  
Innovative compact air cooler



1

Fan attached to the back of chassis

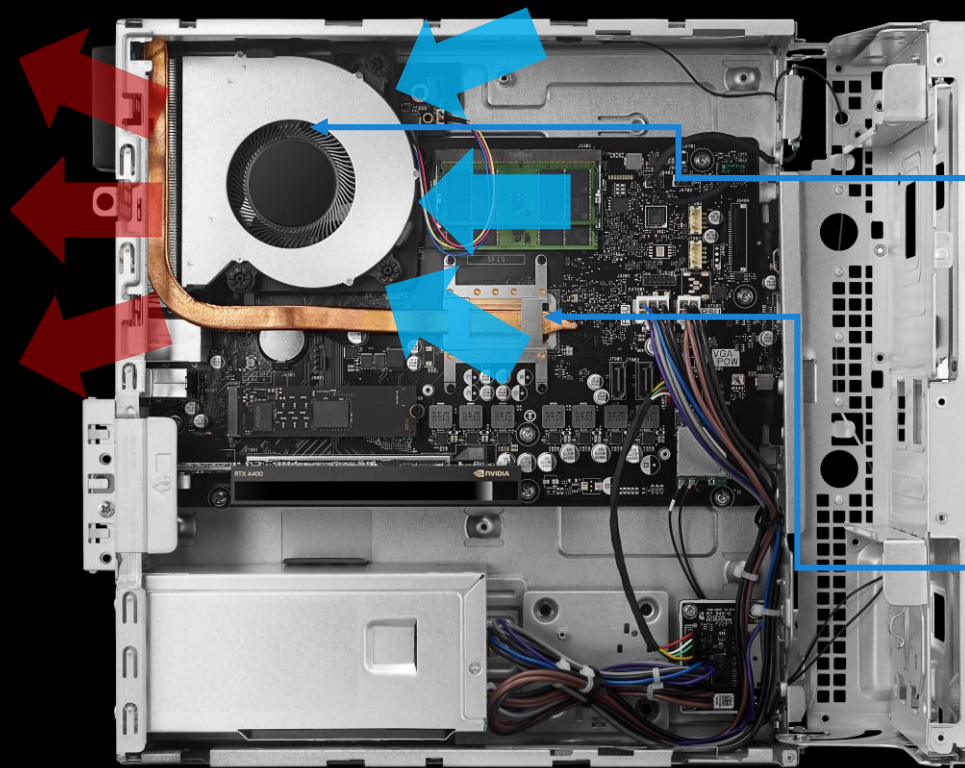
2

Copper pipes to guide heat

Combination of strategic airflow and  
advanced heat pipe technology ensures  
optimal temperatures

# Efficient Heat Expulsion by Advanced Design

**P500SV thermal**  
**Innovative compact air cooler**

**1**

## Fan attached to the rear of the chassis

- **Efficient heat expulsion:** Placing the fan at the back ensures that hot air is expelled directly out of the chassis, preventing it from circulating inside and raising internal temperatures.
- **Optimized airflow path:** This positioning helps create a more efficient airflow path, drawing cool air in from the front and sides while expelling heat through the back.

**2**

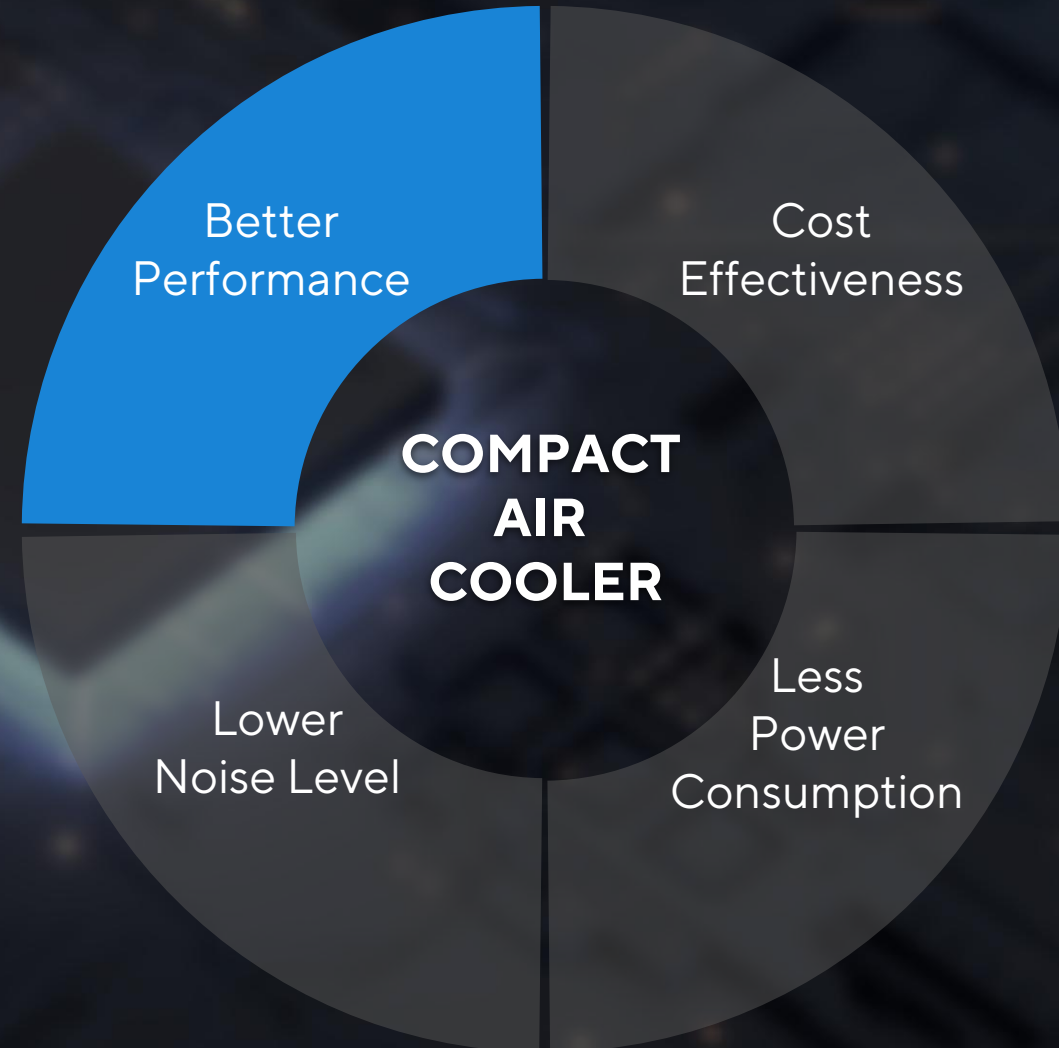
## Copper pipes to guide heat

- **Superior thermal conductivity:** Copper has excellent thermal conductivity, which means it can transfer heat away from critical components quickly and efficiently.
- **Targeted heat dissipation:** Copper pipes can be strategically placed to guide heat from hotspots to areas where it can be more effectively dissipated, such as towards the cooling fan.

A modern office desk setup featuring an ASUS ExpertCenter computer system. The system includes a slim black desktop tower, a large curved monitor displaying a blue abstract graphic, and a keyboard. The ASUS logo is visible on the back of the monitor. The desk is light-colored wood, and a white office chair is partially visible. A large blue geometric overlay is on the right side of the image, containing the text 'Competitive Advantages'.

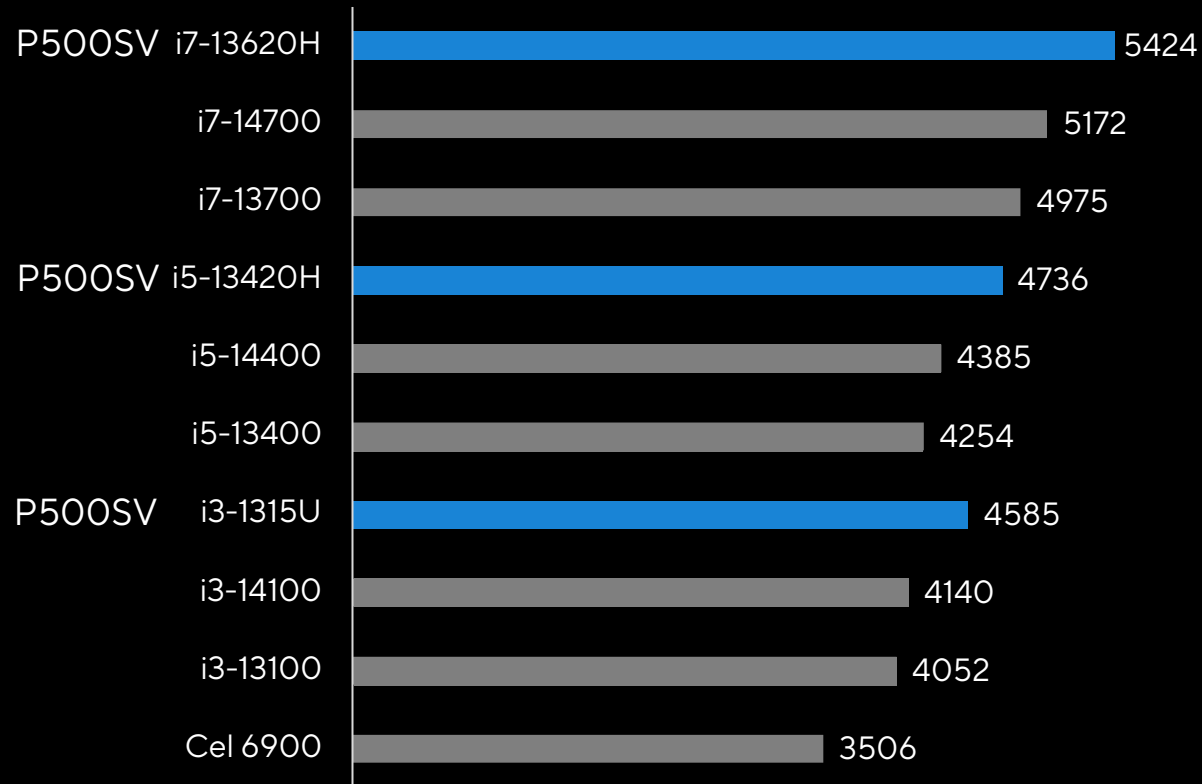
# Competitive Advantages

# Competitive Advantages Overview

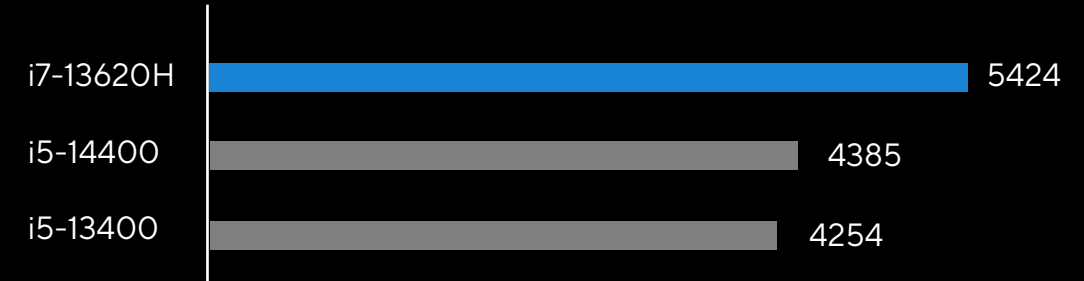


# PC Mark: 28% faster performance

## PC Mark

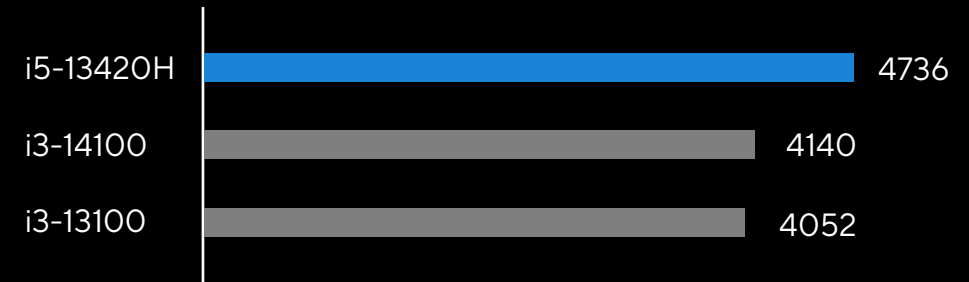


## P500SV i7 vs Desktop CPU i5



**28%** faster in the similar price range CPU

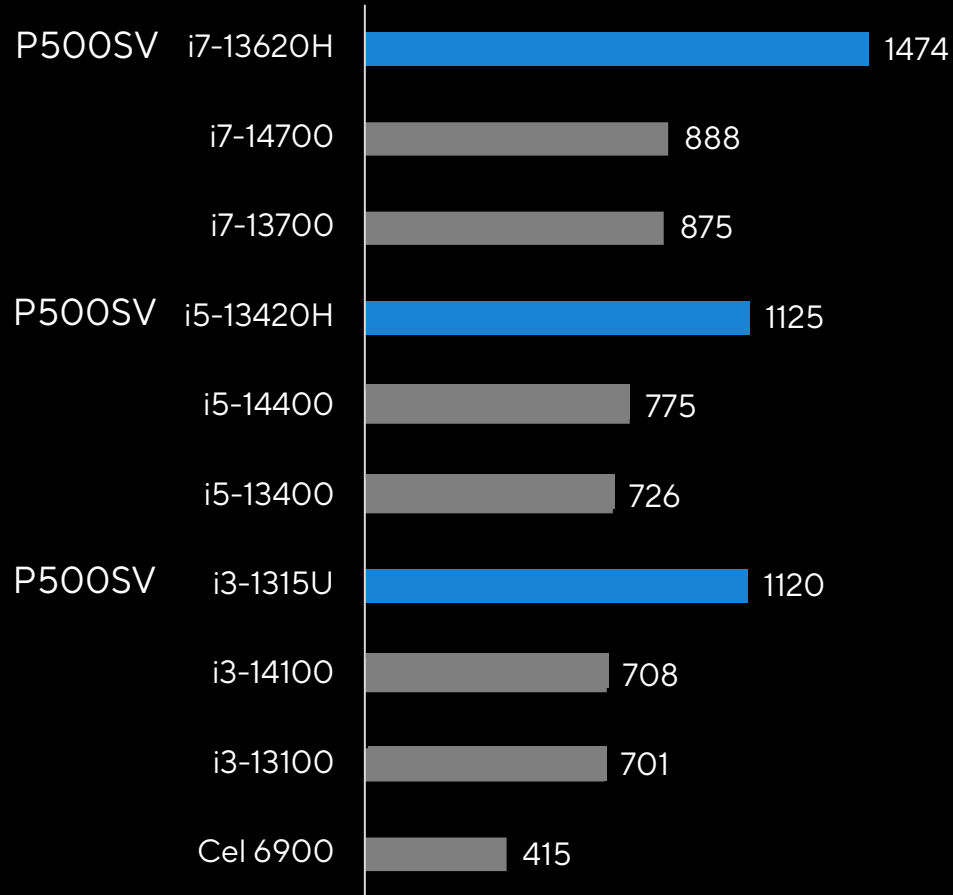
## P500SV i5 vs Desktop CPU i3



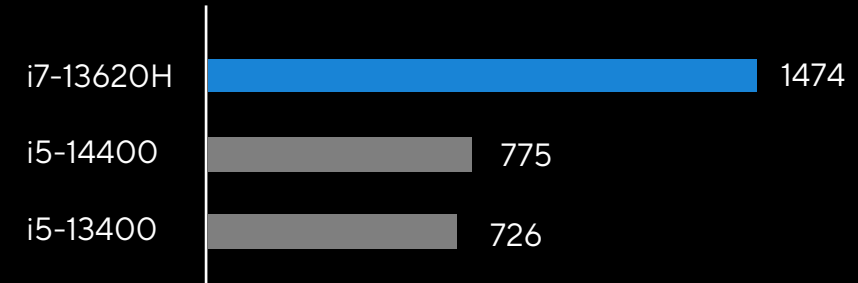
**17%** faster in the similar price range CPU

# 3D Mark: 103% faster performance

## 3D Mark

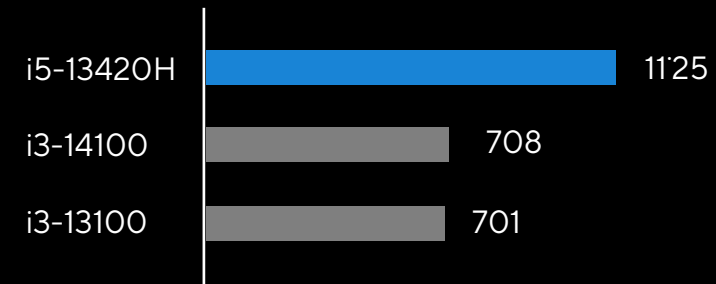


## P500SV i7 vs Desktop CPU i5



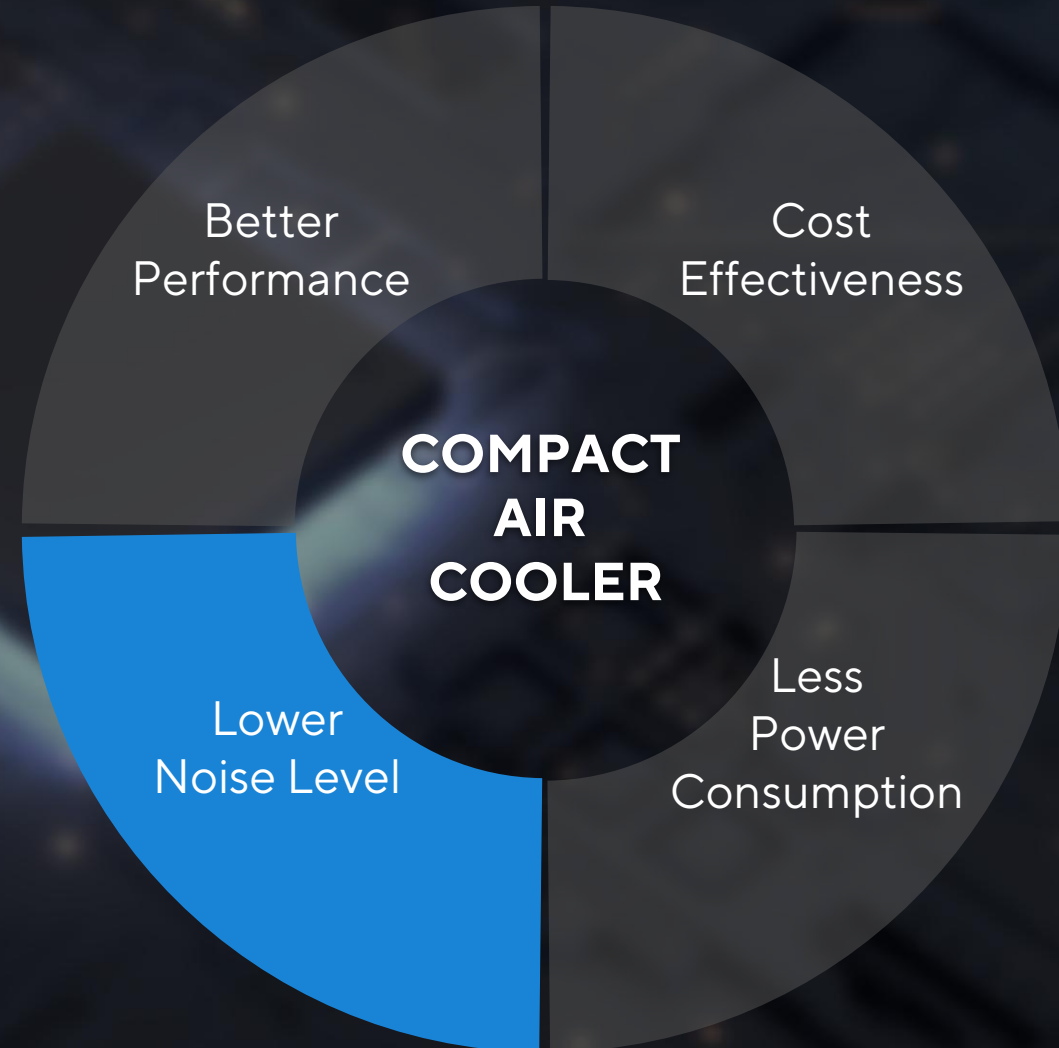
**103%** faster in the similar price range CPU

## P500SV i5 vs Desktop CPU i3



**60%** faster in the similar price range CPU

# Competitive Advantages Overview



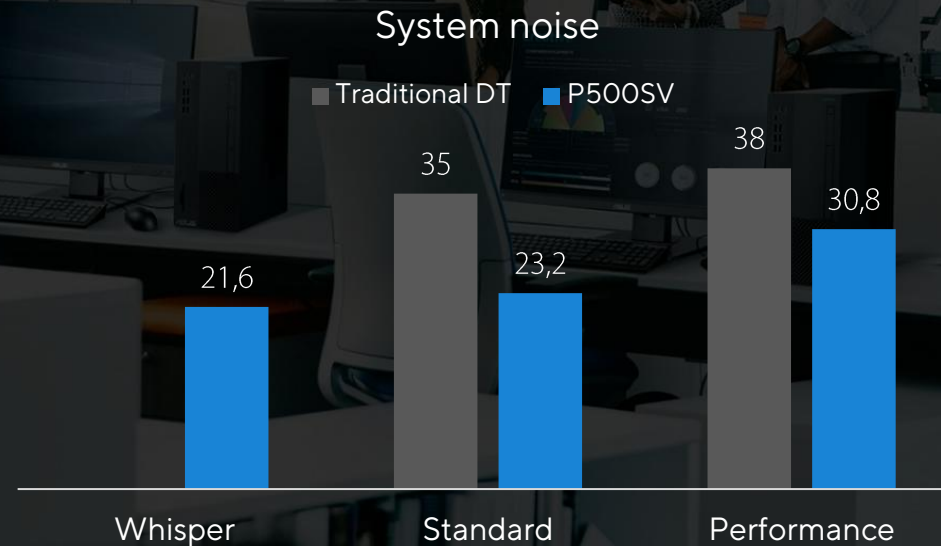
# Engineered to be quiet

Maintains controlled noise levels even in Performance mode, with reduced idle noise.

Whisper mode  
**21.6 dB**

Standard mode  
**23.2 dB**

Performance mode  
**30.8 dB**



\*Whisper mode is not available on traditional DT

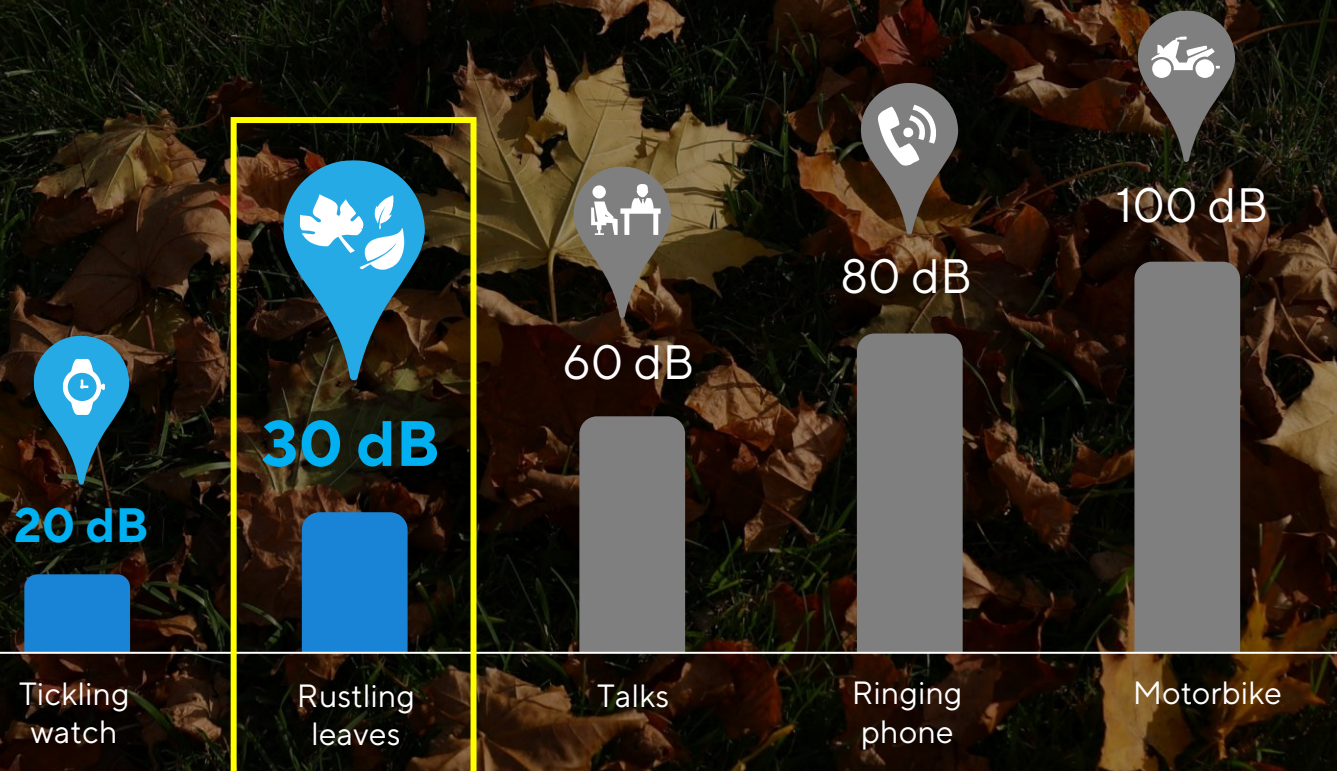
\*ExpertCenter P500SV testing configuration: i7-13620H, memory 16 GB, storage 1 TB, without discrete graphics and HDD

\*Traditional DT testing configuration: Intel® Core™ Ultra 7 Processor 265, memory 16 GB, storage 1 TB, without discrete graphics and HDD

# Quiet as rustling leaves at performance mode

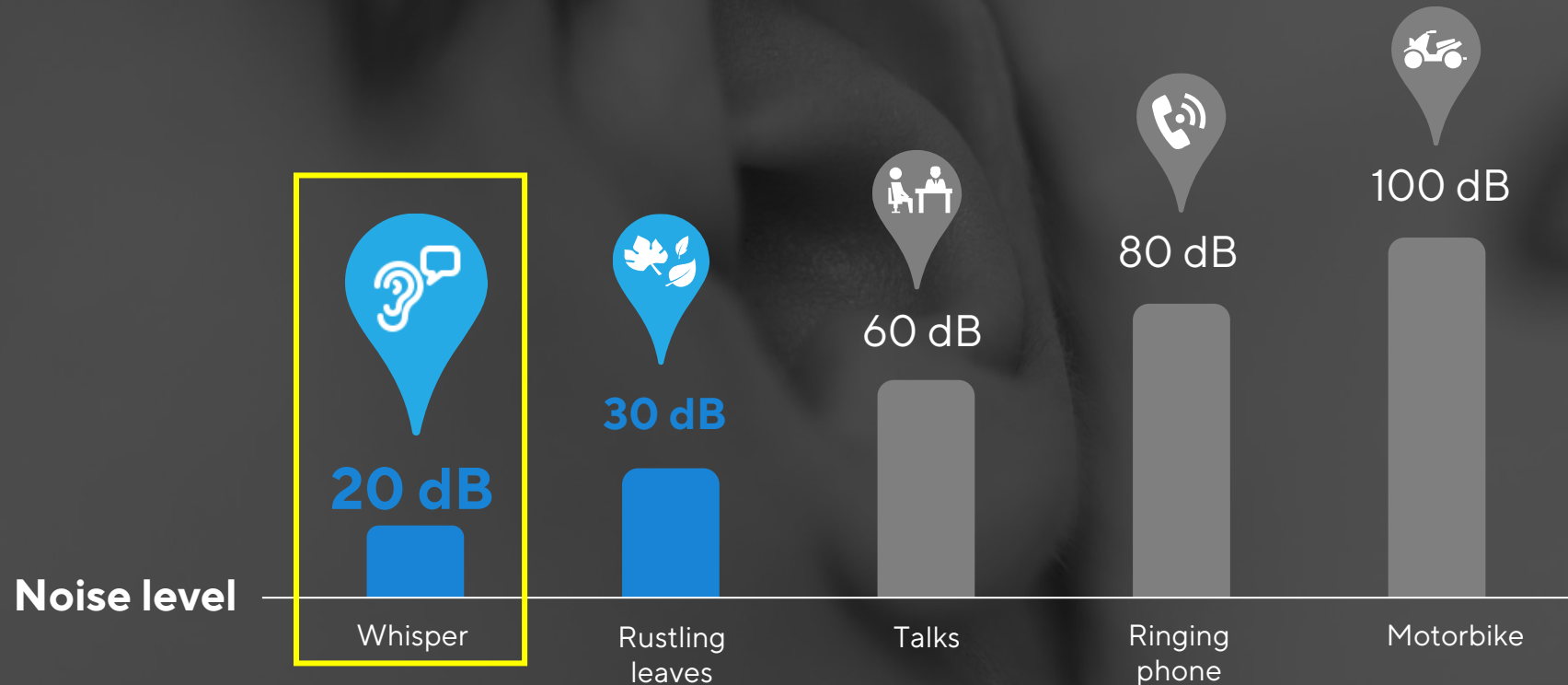
|           | Performance mode | Standard mode  | Whisper mode   |
|-----------|------------------|----------------|----------------|
| i7-13620H | <b>30.8 dB</b>   | <b>23.2 dB</b> | <b>21.6 dB</b> |
| i5-13420H | <b>30.4 dB</b>   | <b>22.2 dB</b> | <b>21.2 dB</b> |

## Noise level



# Quiet as whisper anytime

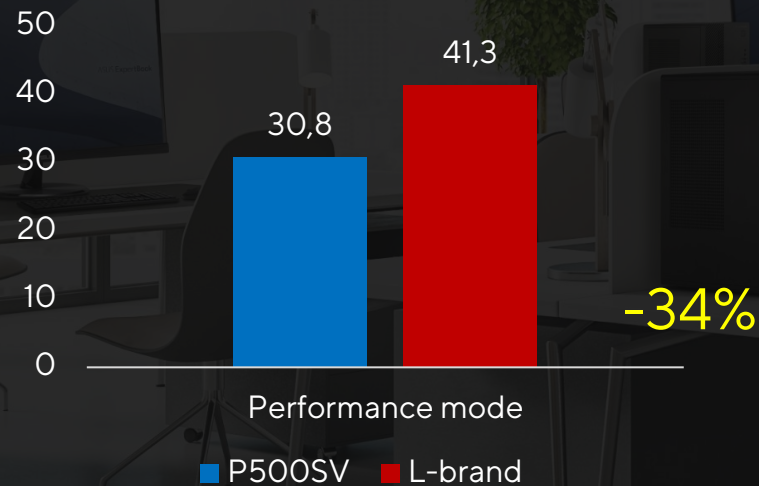
|           | Performance mode | Standard mode | Whisper mode |
|-----------|------------------|---------------|--------------|
| i7-13620H | 30.8 dB          | 23.2 dB       | 21.6 dB      |
| i5-13420H | 30.4 dB          | 22.2 dB       | 21.2 dB      |
| i3-1315U  | 21.8 dB          | 21.7 dB       | 21.1 dB      |



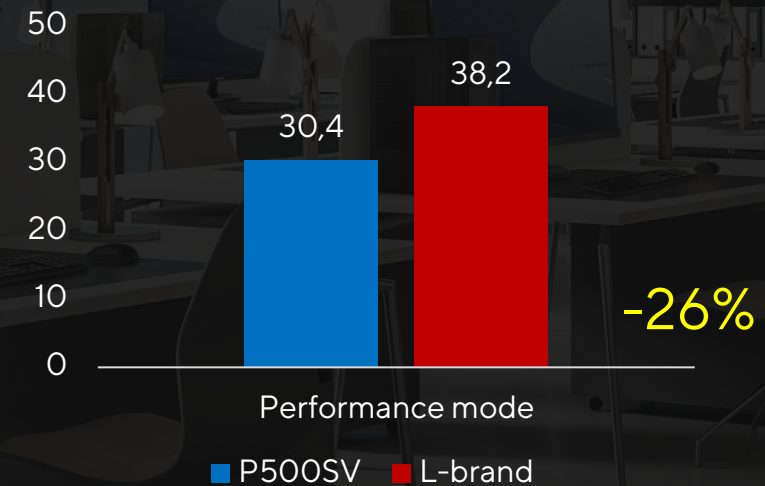
# Powerful computing, whisper quiet

ExpertCenter P500SV delivers exceptional CPU performance while maintaining effective noise control, ensuring a quiet working environment. You can enjoy high-performance computing without noise.

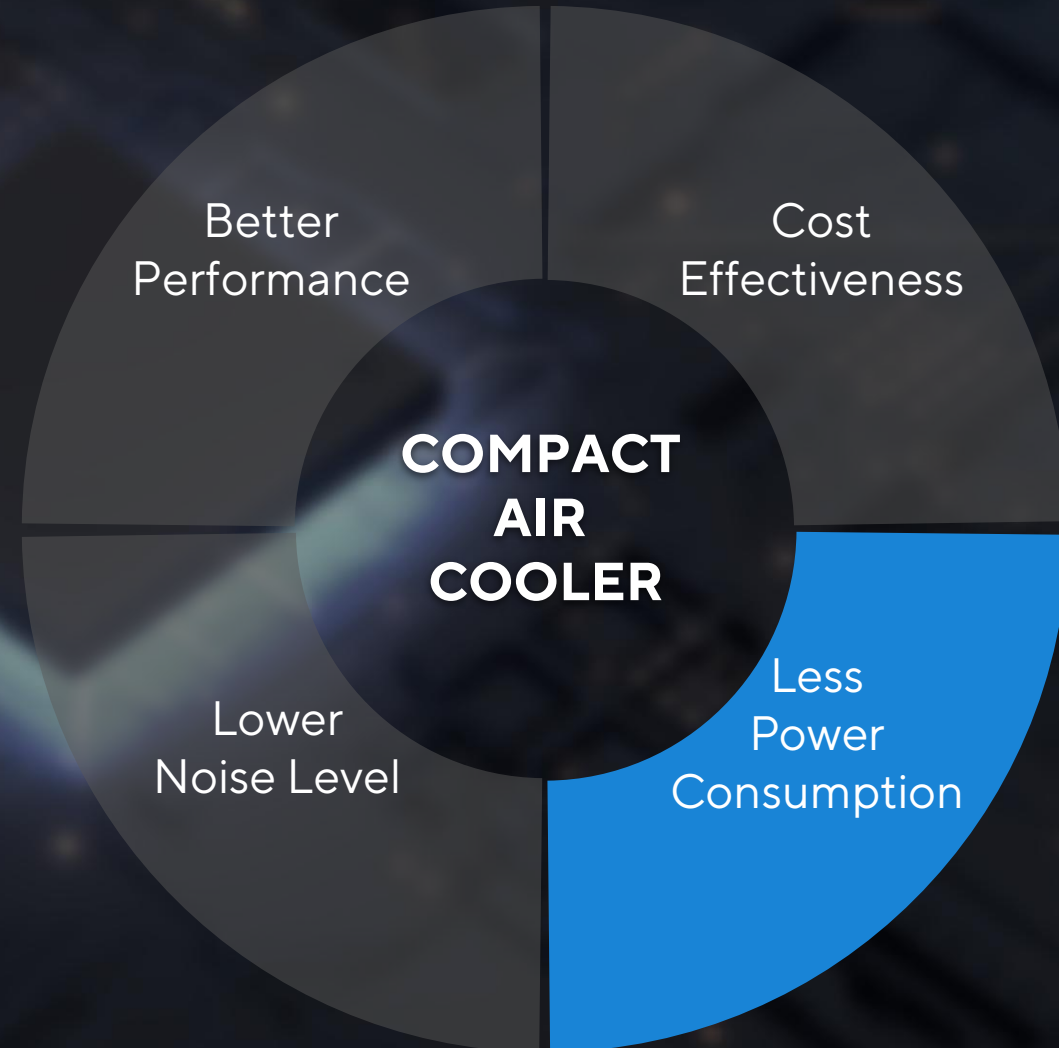
Prime95  
i7-13620H



Prime95  
i5-13420H



# Competitive Advantages Overview

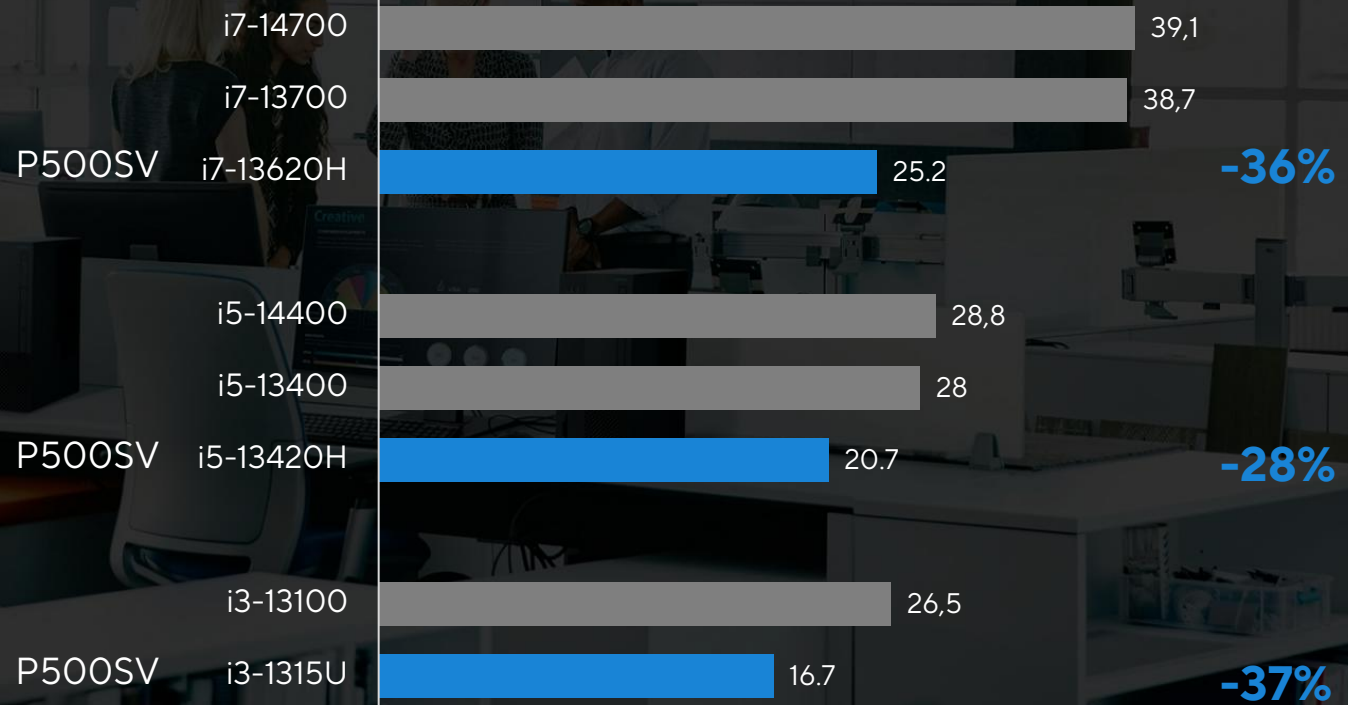


# Less power consumption means lower operating costs

## Up to 37%

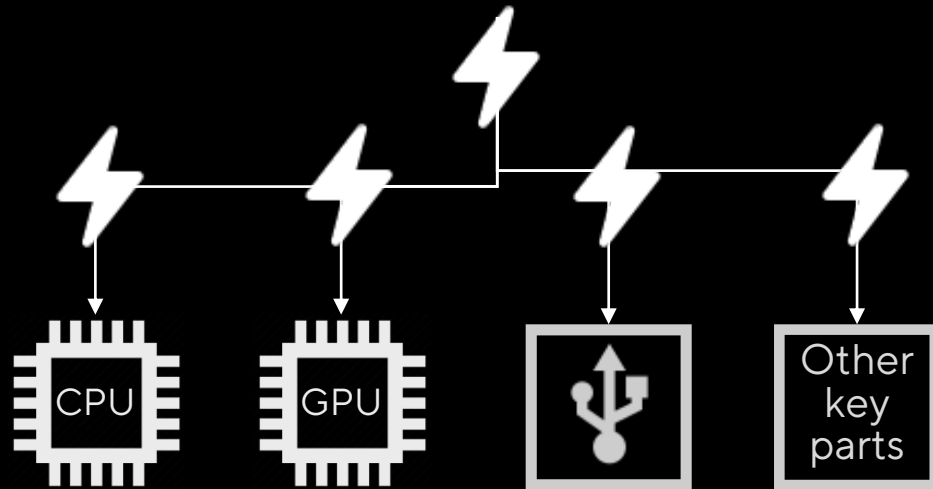
Lower power draw, compared to both Intel 14<sup>th</sup> and 13<sup>th</sup> Gen desktop processors

Power Consumption PC Mark 10 Extended  
Watts per hour (lower is better)



# Real-time Power, Maximized Performance

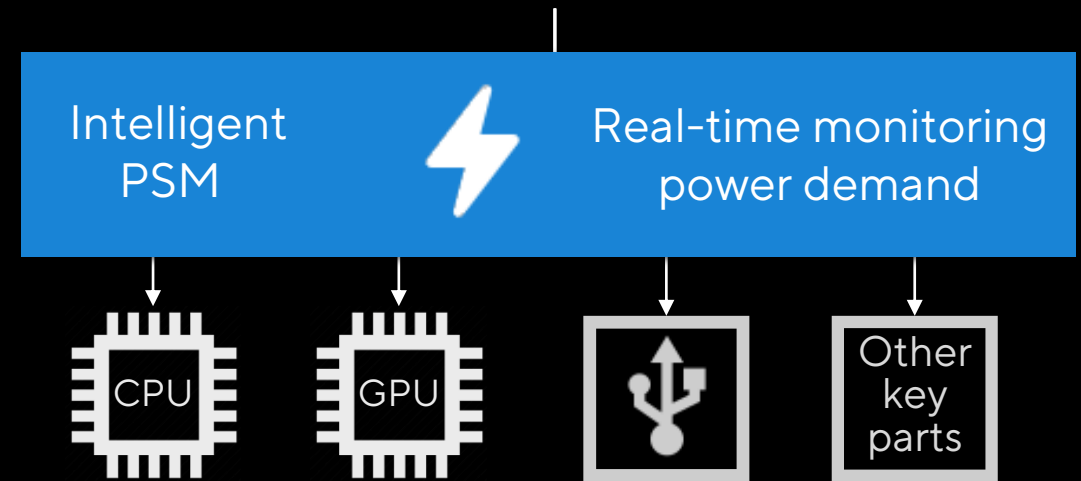
Traditional  
PSU



Traditional PSU needs to take stricter precautions in power limits – to ensure the system stays within the maximum power for every key part **at any given time**.

**Reducing the potential performance**

ExpertCenter  
Intelligent PSM



Our brand new power supply solution , **ExpertCenter Intelligent PSM**, dynamically and efficiently allocate power to the entire system at the right time for the right needs.

**Unlocking more performance**

# Competitive Advantages Overview

**28%+**

productivity  
performance

**103%+**

3D performance

**21.1 dB**

Whisper mode

Better  
Performance

Cost  
Effectiveness

**COMPACT  
AIR  
COOLER**

Lower  
Noise Level

Less  
Power  
Consumption

**TOP Offer**

for best value

up to **37%**

lower power draw



# Security and Management

# AI-powered Productivity Revolution



## AI ExpertMeet

Secure on-client AI processing

Available cross all Expert PCs

Full function. No hidden fees.



### ASUS AI Audio

- **General mode:** AI De-reverberation / AI Noise Reduction Speaker / AI Acoustic Echo Cancellation
- **Single presenter mode:** Voiceprint Noise Reduction / AI Beamforming
- **Multiple presenter mode:** Dynamic Max Volume pickup / Far-Field pickup / AI Noise Reduction Microphone



### AI Meeting Minutes

- Record the meeting in real time
- Transcripts with **unique speaker ID**
- Full transcript with translations
- AI summary to capture key points



### AI Translation

- Seamless multi-language communication
- Translated captions
- Supports subtitle generation from speaker, microphone, or both audio sources



### Business Watermark

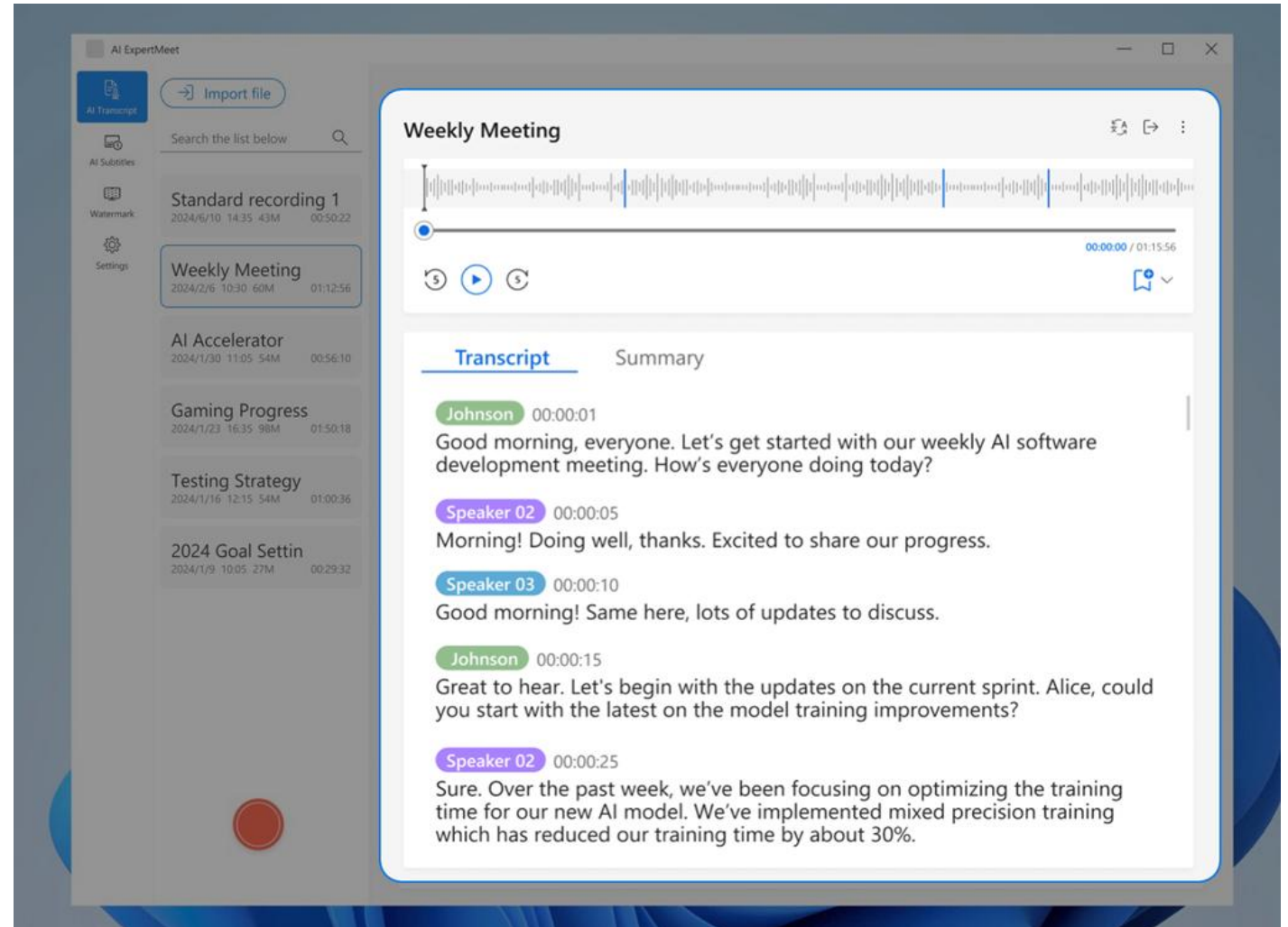
- Help protect proprietary data
- Establish better relations
- Stand out with partners



# AI Meeting Minutes

## Capture everything said. Focus on what matters.

- Record the meeting in real time
- Transcripts with **unique speaker ID**
- Full transcript with translations
- AI summary to capture key points

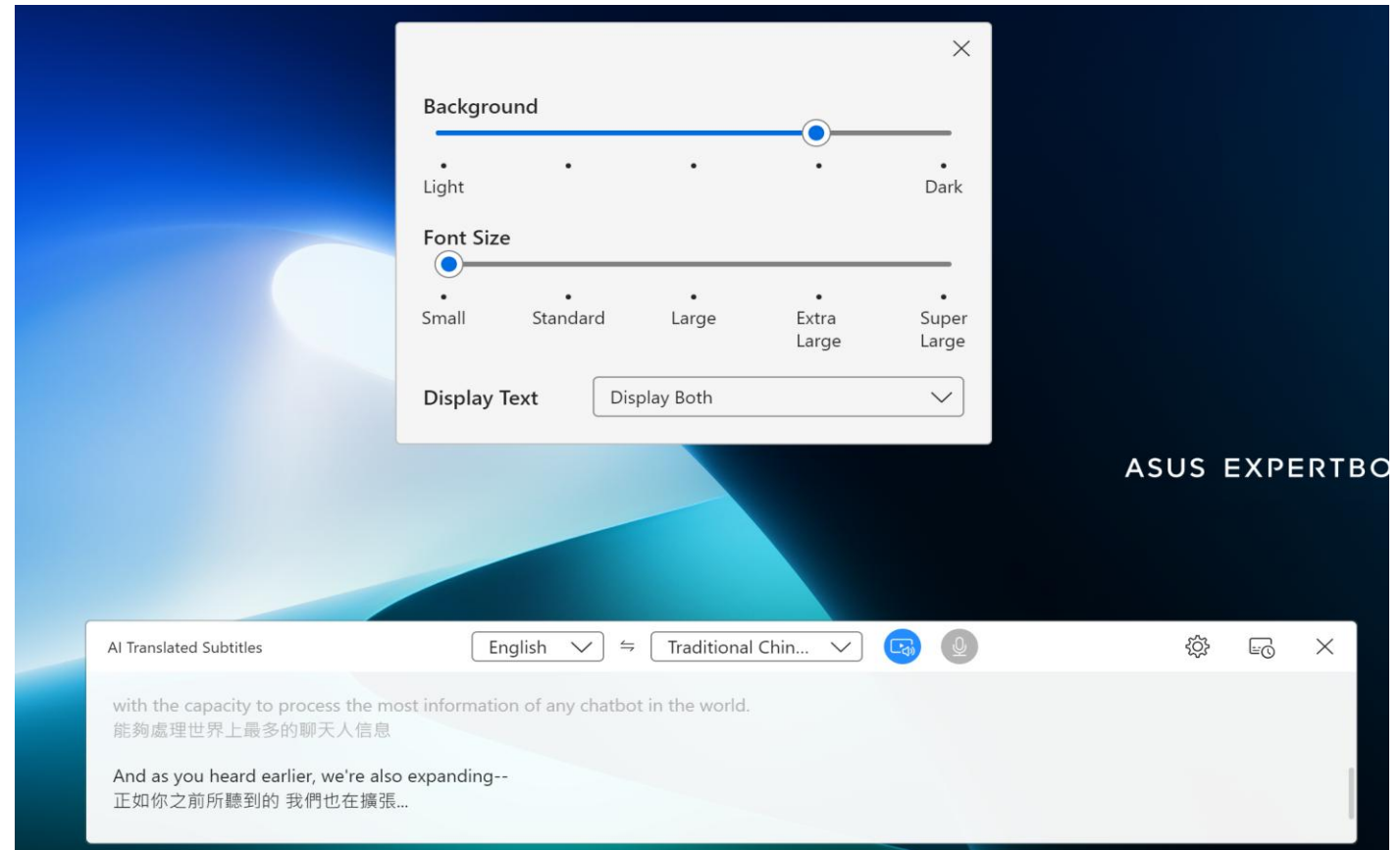




# AI Translated Subtitles

## Connect across languages Connect across the world

- Seamless multi-language communication
- Supports subtitle generation from microphone, speaker, or both audio sources

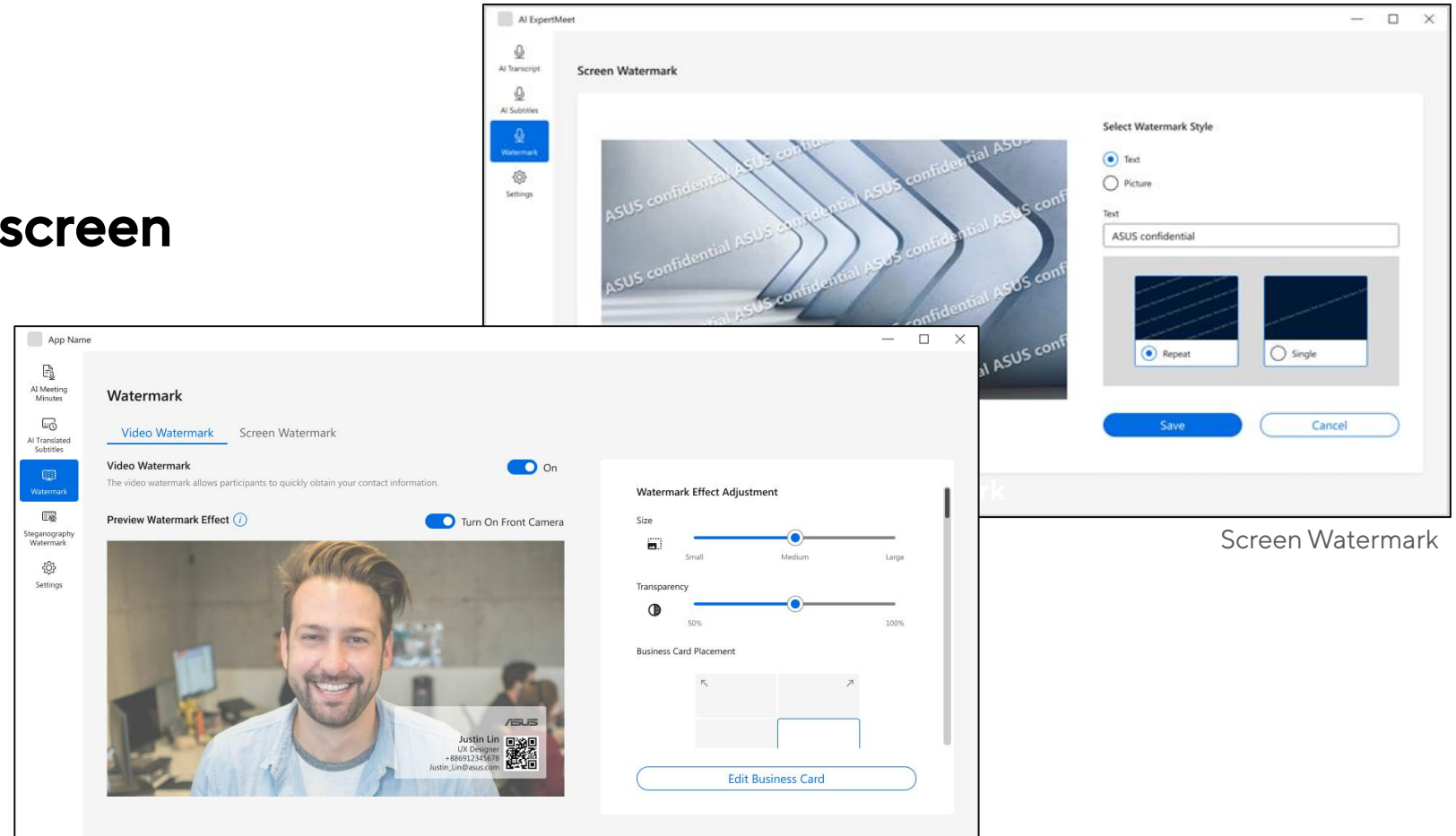




# Business watermark

## Worry-free sharing On screen

- Help protect proprietary data
- Establish better relations
- Stand out with partners



Screen Watermark

Webcam Watermark

# Exclusive Protection Always On

## ASUS ExpertGuardian

Business-Grade Security – Secured from hardware to software

Solution Security

- **IT Management**

Allows IT staff to remotely control and manage business assets, making sure all digital data is safe and sound

On-Device Security

- **OS/Software Features & Applications**

Prevents malicious attackers from accessing encryption keys or sensitive data with multifactor identity authentication

Hardware Access Protection

- **Firmware/BIOS features**

Protection prevents unauthorized manipulation of hardware resources



\* OPTIONAL FEATURE SUBJECT TO MODEL, REGION, OR COUNTRY

# Information Security Process Cycle

## Prevention is the first line of defense.

8-character passwords, tamper detection, and self-repair with IT alerts.

**STRONGER BIOS PASSWORD**

**BIOS DOWNGRADE PROTECTION**

**PERIODIC FIRMWARE SECURITY UPDATE (5 Years)**



## Detection as the second line of defense:

Monitors threats, unauthorized changes, and malware.

**FIRMWARE TAMPER  
DETECTION & RECORDS**

## Response as the third line of defense:

Acts immediately to mitigate threats and restore security.

**AUTO BIOS RECOVERY**



# ASUS ExpertGuardian 1.0

|                                                  | ASUS<br>Enterprise (B) & SMB (P)<br>Expertbook &<br>Expert Centers | Lenovo<br>ThinkPad &<br>ThinkCentre | HP<br>Elite Series &<br>Pro Series | Dell<br>Latitude / OptiPlex |
|--------------------------------------------------|--------------------------------------------------------------------|-------------------------------------|------------------------------------|-----------------------------|
| <b>Hardware Access Protection</b>                |                                                                    |                                     |                                    |                             |
| • NIST Guideline Compliant                       | ✓                                                                  | ✓ (X/T/P-series)                    | ✓ (Dragonfly, Elite, Pro-series)   | ✓ (7000/9000-series)        |
| • BIOS Self-Recovery                             | ✓                                                                  | ✓ (X/T/P-series)                    | ✓ (Dragonfly, Elite, Pro-series)   | ✓ (7000/9000-series)        |
| • Certificate-based BIOS &<br>Enhanced Passwords | ✓                                                                  | ✓ (X/T/P-series)                    | ✓ (Dragonfly, Elite, Pro-series)   | ✓ (7000/9000-series)        |
| • Rollback Prevention                            | ✓                                                                  | ✓                                   | ✓                                  | ✓                           |
| • Tamper Detection                               | ✓                                                                  | ✓                                   | ✓                                  | ✓                           |
| • USB Access Lock                                | ✓                                                                  | ✓                                   | ✓                                  | ✓                           |
| • Security Updates (Up to 5 Years)               | ✓                                                                  | Optional (3-5 Years)                | 1-3 Years                          | 1-3 Years                   |
| <b>On-Device Security</b>                        |                                                                    |                                     |                                    |                             |
| • Windows 11 Security Level 2                    | ✓                                                                  | ✓ (X/T/P-series)                    | ✓ (Dragonfly, Elite, Pro-series)   | ✓ (7000/9000-series)        |
| • dTPM                                           | ✓                                                                  | ✓                                   | ✓                                  | ✓                           |
| • Trusted Computing Group<br>(TCG) Compliant     | ✓                                                                  | ✓                                   | ✓                                  | ✓                           |
| <b>Solution Security</b>                         |                                                                    |                                     |                                    |                             |
| • Cloud Recovery (Factory Image)                 | ✓                                                                  | ✓ (X/T/P-series)                    | ✓ (Dragonfly, Elite, Pro-series)   | ✓ (7000/9000-series)        |
| • Anti-virus Software                            | ✓ (P-1 Year\30 Days)                                               | ✓ (30 days)                         | ✓ (30 days)                        | ✓ (30 days)                 |

# ASUS ExpertGuardian 1.0

| Hardware Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | On-Device Features                                                                                                                                                                                                                                                                                                                                                                                                                           | Solution Features                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>NIST Guideline Compliant</b><br/>Meets NIST security standards for high protection.</p> <hr/> <p><b>BIOS Self-Recovery</b><br/>Automatically fixes BIOS issues if they occur.</p> <hr/> <p><b>Rollback Prevention</b><br/>Stops the system from reverting to an unsafe older version.</p> <hr/> <p><b>Tamper Detection</b><br/>Prevents unauthorized BIOS changes. Tampered firmware events are logged in the System Log Page, and a warning prevents OS access on startup.</p> <hr/> <p><b>USB Access Lock</b><br/>Blocks unauthorized USB devices.</p> <hr/> <p><b>Security Updates</b><br/>Provides security updates for up to 5 years to keep the system secure.</p> | <p><b>Windows 11 Security Level 2</b></p> <hr/> <p><b>dTPM</b><br/>Discrete Trusted Platform Module(dTPM) is designed to be compliant with TCG standards, ensuring it meets rigorous security requirements for trusted computing environment.</p> <hr/> <p><b>Trusted Computing Group (TCG) Compliant</b><br/>TCG guidelines protect the OS from unauthorized changes, ensuring only trusted software runs for security and reliability.</p> | <p><b>Cloud Recovery</b><br/>Restores the system to its original factory settings using a backup stored in the cloud.</p> <hr/> <p><b>Anti-virus Software</b><br/>Protects the computer from malware and other malicious software.</p> |

These features of ExpertGuardian applied for ExpertCenter P500SV.

# AI-powered Web Protection



**1 Free Year Premium  
Membership**

**Premium membership value €44.95**

**AntiVirus, Fraud Protection, Social Media Private Manager**

## Security

Unlimited device security  
Safe browsing

## Identity

Password manager  
Identity monitoring

## Privacy

Unlimited VPN  
Social privacy  
Personal Data Cleanup (manual)  
Online Account Cleanup (manual)

# AI-powered Web Protection



**Take control of who  
can access your  
personal info online**

## **Identity monitoring**

helps keep your info safe, with early alerts if your data is found on the dark web

## **Personal Data Cleanup**

automatically requests removal of your info from data broker sites

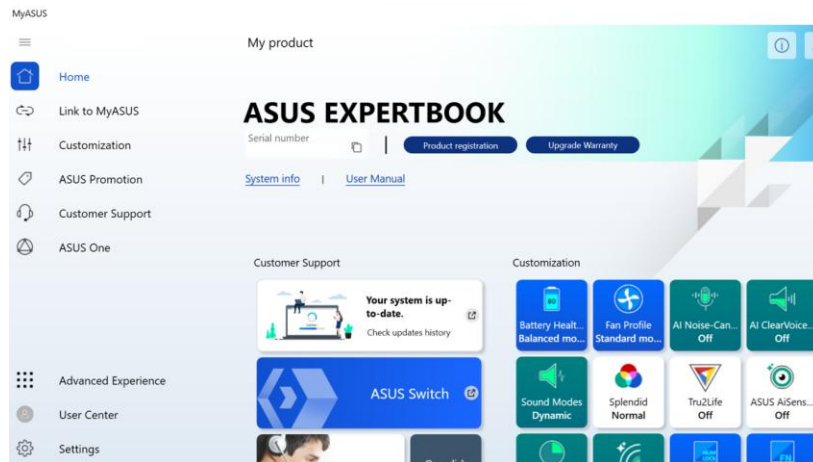
## **Online Account Cleanup**

scans help find unused accounts, providing a risk level so you can decide which to delete

## **Social Privacy Manager**

helps you configure your social media privacy settings according to how much you want to share

# Business-Class Manageability



## MyASUS

A central hub for ASUS software, with apps designed to maintain your system, optimize PC performance, and contact ASUS for after-sales service.

- Hardware Settings
- System Diagnosis
- Customer Service
- ASUS AppDeals



## ASUS Control Center

A centralized IT-management suite that enhances enterprise productivity with comprehensive control through a user-friendly interface.

- Hardware & Software Monitoring
- Remote Management
- Advanced Search & Grouping
- Enhanced Security



## ASUS BIOS

This helps with device identification in teams and enables easier management of individual PCs.

- User friendly interface
- Create and store serial numbers
- Exclusive mouse control
- Safe BIOS updates

A woman with blonde hair tied back is sitting at a wooden desk, viewed from behind. She is wearing a dark, textured sweater. In front of her is a large computer monitor displaying a colorful bar chart with multiple data series. To the left of the monitor, a desk lamp is visible. To the right, a black vertical computer tower stands next to a green potted plant in a light-colored pot. The background wall is light blue with several framed pictures. A large blue diagonal graphic is overlaid on the left side of the image, containing the text.

# **Durability and Sustainability**

# Unmatched Protection, Reliability, and Compatibility

**45%** global market share

Comprehensive system  
protection

**5X**

**Protection III**

- Overvoltage protection
- 3x corrosion-resistance
- Stable power supply
- Surge-protected networking
- Stainless-steel back I/O

24/7 reliability

**8000+**

**Validation hours**

- Temperature and humidity tests
- Thermal-shock tests
- Aging tests
- Power-consumption tests
- Burn-in tests

Flexible expandability

**1000+**

**Compatible devices**

- The superior compatibility of ASUS motherboards is evidenced by ASUS internal test, including thousands of compatible component.

# Powerful Endurance: Enhancing Stability and Longevity

ExpertCenter P500 is engineered with 100% solid capacitors for better performance and longevity, with **a lifespan that's up to 2x greater** than traditional capacitors with the CPU under full load and **6x longer during everyday use**. This maximizes your investment and minimizes the need for maintenance — all contributing to a lower total cost of ownership (TCO).

# 100%

## Solid capacitors

| Capacitor Type                                                               | General OS-con                                | Electrolytic Capacitors            |
|------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------|
| Capacitor Life<br><small>(86°C: Full loading / 65°C: Normal loading)</small> | <b>2 years @86°C</b><br><b>22 years @65°C</b> | 1 year only @86°C<br>3 years @65°C |



# US Military Grade Testing Methods

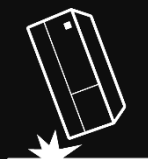
ASUS ExpertCenter desktops are extraordinarily tough enough to be tested with industry-leading military-grade MIL-STD-810H durability standards.

Test against 8 Categories and 15 procedures.



## Temperature Shock

Endure **-51°C~71°C** for 1 Hour / three cycles with power off



## Shock Test

Withstand **18 harsh shocks** at the speed of 40G/11ms with power on



## Humidity Test

Tolerate **95% relative humidity** at temperatures of 30°C and 60°C for 10 days with power off



## Altitude Test

Handle extreme **15,000-ft** heights, with power on



## High Temperature Test

Endure **32°C~43°C** for 3 x 24 hr. cycles, **14~44% humidity**, with power on



## Low Temperature Test

Endure **-37°C~-46°C** for 3 x 24 hr. cycles, **Wind <11mph**, with power on



## Freeze/Thaw

Rapid change **30°C~-10°C**, **95% humidity** dwell: 1 hour, 3 cycles



## Vibration

Withstand **5-500Hz** physical vibrations for **60 mins**

# ASUS Business Support Package

|                                    | Standard | ASUS Business Support (P Series) | ASUS Business Support Plus (B Series) |
|------------------------------------|----------|----------------------------------|---------------------------------------|
| Warranty Extension                 | ○        | ○<br>(Up to 3 years)             | ○<br>(Up to 5 years)                  |
| International Warranty             | ○        | ○                                | ○                                     |
| ASUS System Diagnostics            | ○        | ○                                | ○                                     |
| Repair Reports                     | ○        | ○                                | ○                                     |
| VIP Hotline                        |          | ○                                | ○                                     |
| Next-Day Local On-Site Service     |          | ○                                | ○                                     |
| Local Accidental Damage Protection |          | ▲                                | ○                                     |
| ASUS Control Center (ACC)          |          | ▲                                | ○                                     |
| HDD/SSD Retention                  |          | ▲                                | ○                                     |
| Service Account Manager            |          |                                  | ○                                     |
| ASUS Image Maker (IM)              |          |                                  | ○                                     |

# Efficient Power Consumption

## Smart Fan PSU

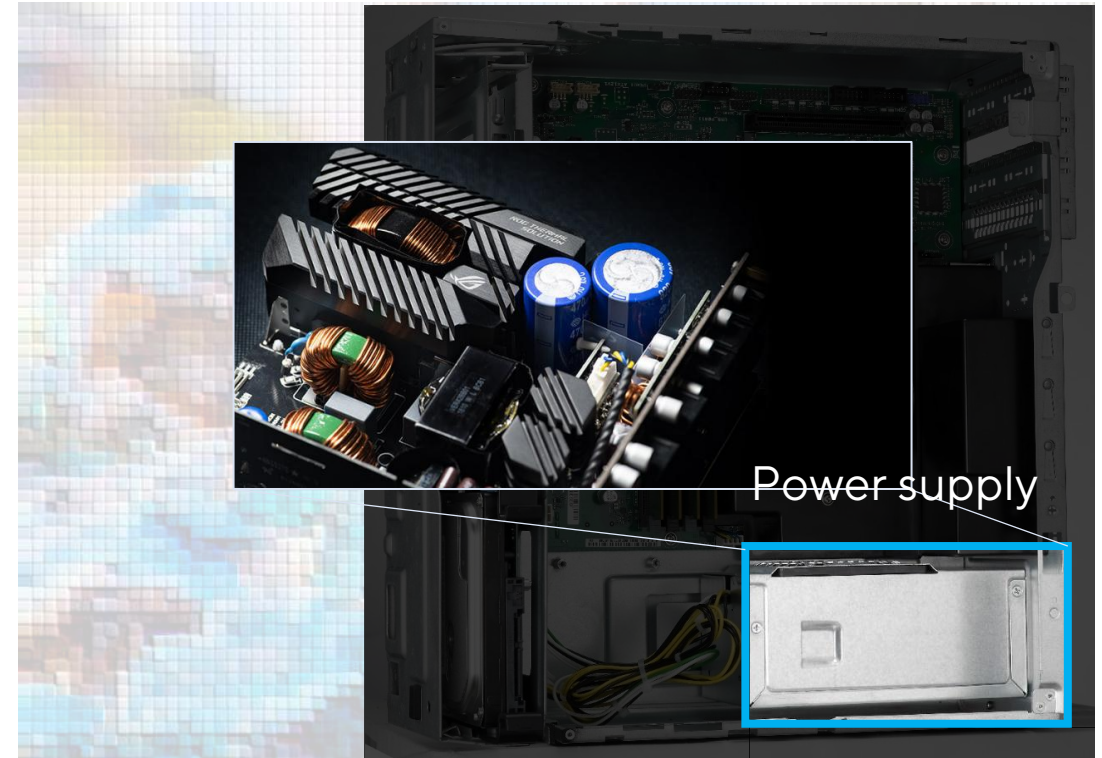
The ExpertCenter P500 boasts a Smart Fan PSU that dynamically adjusts its operation based on the PC's load, optimizing energy efficiency. The fan strategically activates and deactivates, minimizing heat production for enhanced reliability and a better user experience.

## 80 PLUS® Certification

80 PLUS® is a certification designed to denote that a power supply is at least 80% efficient at 20%, 50%, and 100% loads. Depending on the selected power supply, ExpertCenter P500 efficiency ratings include bronze, and platinum.



Up to platinum



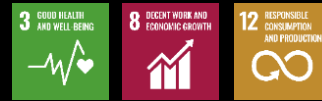
# Turning Values into Action

## ASUS 2025 Sustainability Goals

↑ 100%

### Circular Economy

- Promote sustainable procurement and increase the use of environmentally friendly materials in products and packaging by 100%



↑ 100%

### Responsible Manufacturing

- Achieve labor and human rights goals by completing 100% of RBA third-party audits of key suppliers and ensuring any necessary corrective actions are taken
- Use responsible minerals by sourcing 100% of tantalum, tin, tungsten, gold, and cobalt from qualified smelters



↑ 100%

### Climate Action

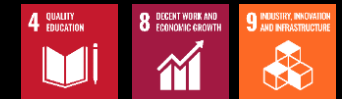
- Key products 30% above Energy-Star efficiency
- Key suppliers cut carbon intensity 30% by 2025
- 100% renewable energy use in Taiwan by 2030, globally by 2035



↑ 100%

### Value Creation

- Intensify digital transformation and innovation efforts with the goal of a 100% increase in sustainable value creation
- Strengthen industry/academia cooperative projects to cultivate more than 1,000 talents



# Delivering on Sustainability & Delivering Value

## Key sustainability achievements

**↑ 87.2%**

Eco friendly\* product revenue in 2022

**↑ 90%**

Of laptop packaging recyclable and made from recycled pulp

**↑ 34.6 %**

More energy efficient than ENERGY STAR® standards, on average, for Notebook PCs in 2022

**100%**

Responsible minerals sourced from qualified smelters since 2018

**40,000+**

Tones of E-waste recycled since 2019

**1,689**

Tones of post-consumer recycled plastics have been used since 2017

**20,000+**

Computers donated to over 1,800 NPOs since 2008

**410,000**

Workers has protected because of annual ESG audit for high-risk suppliers since 2013

\*Definition of Eco friendly product revenue: The product gets eco label such as EPEAT, TCO, ENERGY STAR, Taiwan Green Mark, China Environmental Labeling, China Rohs, Japan ECO mark ...etc

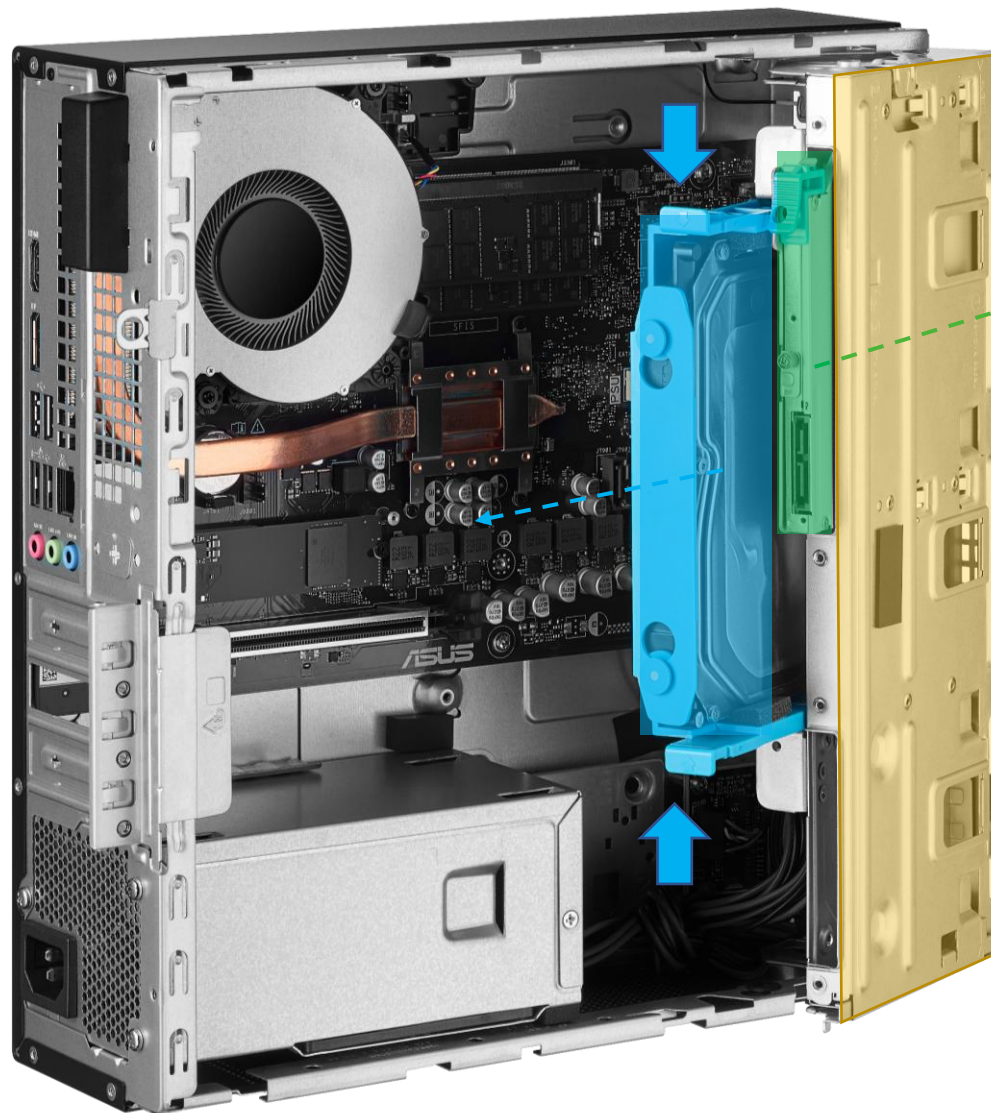
# Tool-free Design

Built for easy maintenance & upgrade

## HDD & ODD Tool-free design

Allows HDD & ODD be easily pulled out with no tools required

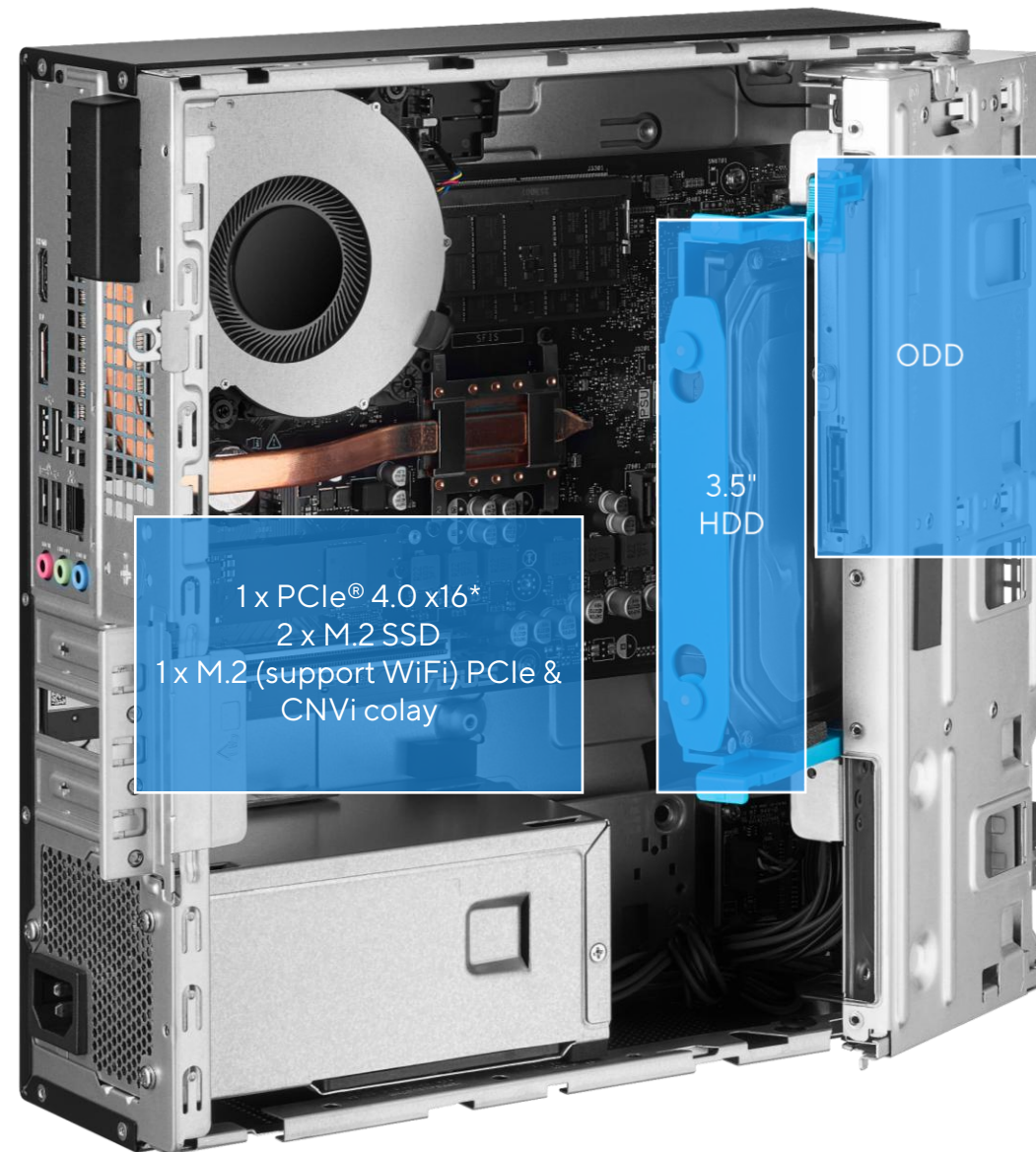
Standard components  
(e.g. VGA card, HDD, SSD)  
for easy upgrade



## Easily repair/upgrade

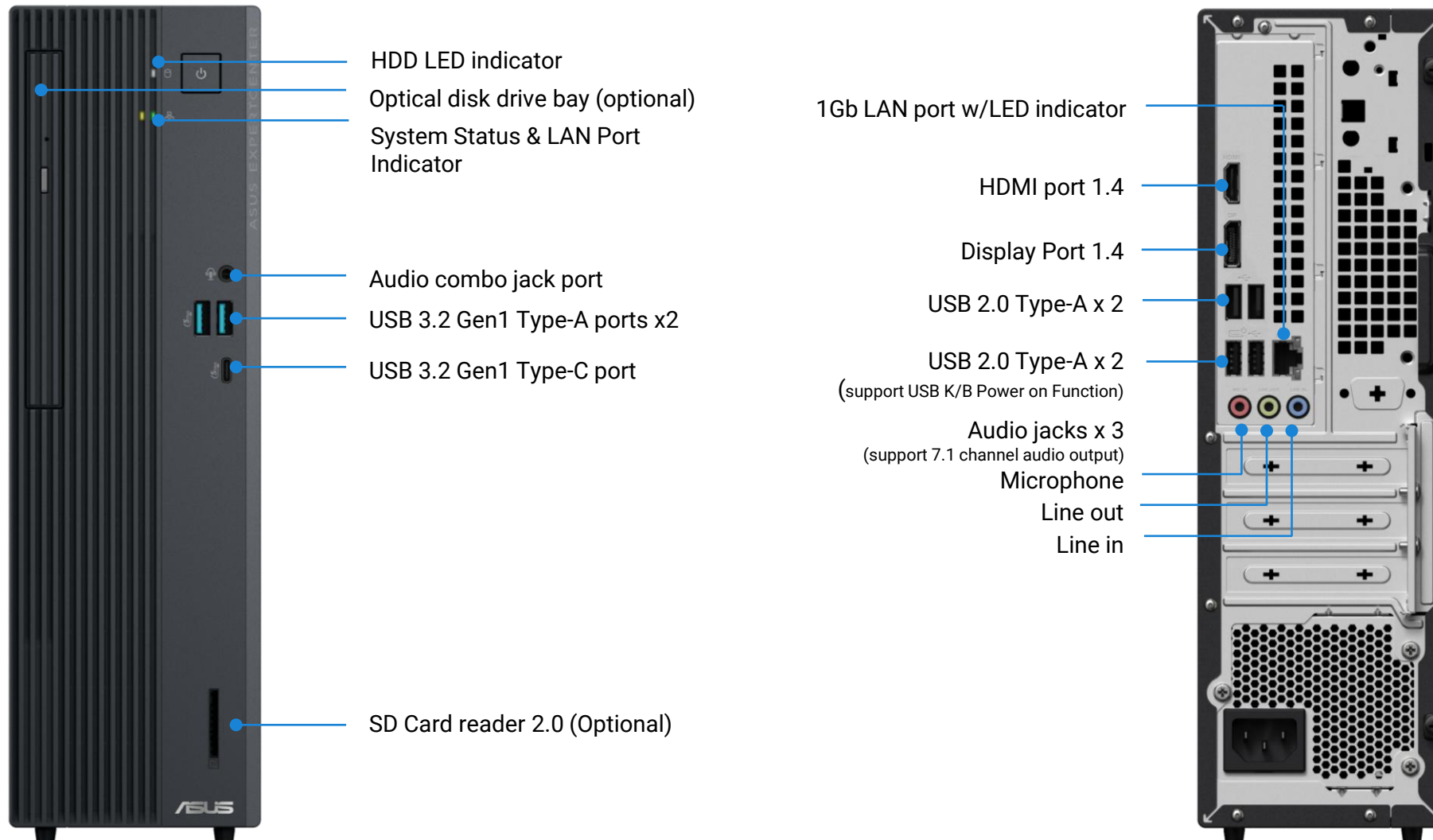
When the rotatable case fully opened, you'll have plenty of space to repair/maintenance easily

# Designed for Flexible Expansion



\*PCIe 4.0 x16 slot on i5 and i7 configurations, electric 8x data connection

# I/O Ports



# Front Status Indicators



## Streamlined User Maintenance

Users can monitor, troubleshoot and address problems more efficiently, reducing downtime and frustration, while being alerted promptly to hardware, connectivity, and hard disk drive issues, enabling proactive measures to prevent further damage or data loss.



### Immediate Troubleshooting

Quickly identify issues such as corrupted BIOS, memory failure, faulty graphics cards, CPU detection problems, overheating, boot device errors, and damaged storage drives.



### Debugging Assistance

Facilitate debugging processes, such as entering and exiting Debug mode, streamlining diagnostic procedures for technicians or advanced users.

# Front Status Indicators



## Hard Disk Drive Status Indicator

Indicate the current status of hard drive to solve hard drive problems such as drive fail & cannot recognize a hard drive.

## Status LEDs for Intel® Ethernet

Display the network connection status, speed, and indicate connection link up, no link or transmitting, and locate at the front panel for intuitive monitoring.