

**msi**

# Cubi NUC 13MQ Infokit

V1.0



reddot winner 2024

**intel**  
vPRO ENTERPRISE



**AI ERA**  
OF COMPUTING

# Cubi NUC 13MQ

*msi*

## Cubi NUC Series

Business & Productivity PC



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# Cubi NUC 13MQ

Business & Productivity PC

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Environment-  
friendly Materials

Mini yet Powerful

Reliable Choice  
for Business

Optimized for  
Versatility &  
Convenience



# Cubi NUC 13MQ

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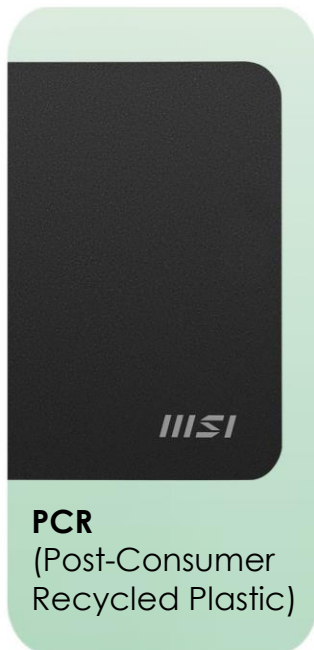
The Essence of Productivity

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	  The mark of responsible forestry FSC™ N004460		
 Up to Intel® Core™ i7 -1365U			  

# Cubi NUC 13MQ Series

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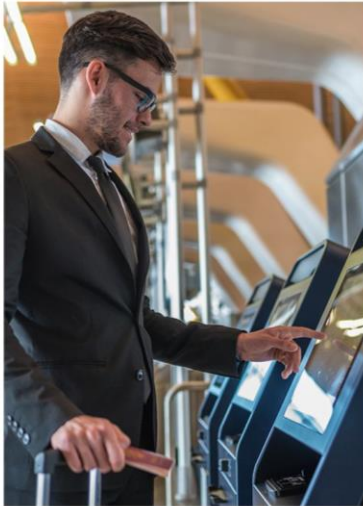


# Resilient and Pioneering Spirit of Your Business



Your business should be empowered to stop at nothing while navigating your journey with the MSI Business & Productivity Series products.

Find more details about many of these projects on: <https://www.msi.com/pro-projects/global>



KIOSK & Digital Signage

VESA Mountable & Various I/O Port



Government & Finance

Security & Remote Management



Education & Science

Space Saving & Manageability



Small and Medium Business

Security & Reliability

# Environment-friendly Materials



By utilizing green materials like post-consumer recycled (PCR) plastic and sourcing renewable energy for our factory,

we ensure the durability of our products and demonstrate a strong commitment to creating a greener world.

# Built for Sustainability

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The Cubi NUC Series blends business-centric design with environmental responsibility - an embodiment of MSI's dedication to sustainability. By utilizing green material, PCR (Post-Consumer Recycled) plastic, ensures not only the products' durability but also commits to a greener world.

Our commitment extends to incorporating sustainable materials in both our product design and packaging, all of which hold certification from ENERGY STAR®. The Cubi NUC Series embodies sustainable value and heightened productivity.



The mark of  
responsible forestry  
FSC® N004460





# PCR (Post-consumer Recycled) Plastic

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**42.9%**

Post-consumer Recycled (PCR) Plastic

The Cubi NUC mini PC contains 42.9% PCR plastic, reducing plastic waste sent to landfills and contributing to environmental conservation.

# Sustainably Sourced Wood Pulp

FSC-certified cartons are made from sustainably sourced wood pulp, ensuring responsible forest management. This certification guarantees that the materials are renewable and low-carbon, promoting environmental sustainability.

By using FSC-certified cartons, MSI supports sustainable practices and contributes to the preservation of forests for future generations



# Renewable Energy - Solar and Wind Power

MSI has installed solar panels on the entire factory roof, resulting in a 64.53% reduction in TCO<sub>2e</sub> compared to the data from 2021.

Additionally, by purchasing wind power, the factory now uses renewable energy for 92% of its energy needs. This demonstrates MSI's commitment to environmental protection and sustainable development.







Renewable Energy

# MSI Power Meter

Power Meter can track power usage and implement energy-saving measures for AIO PCs and Desktop PCs. Users can monitor real-time power consumption, or activate one-click power-saving modes, carbon emissions calculation and energy cost analysis.

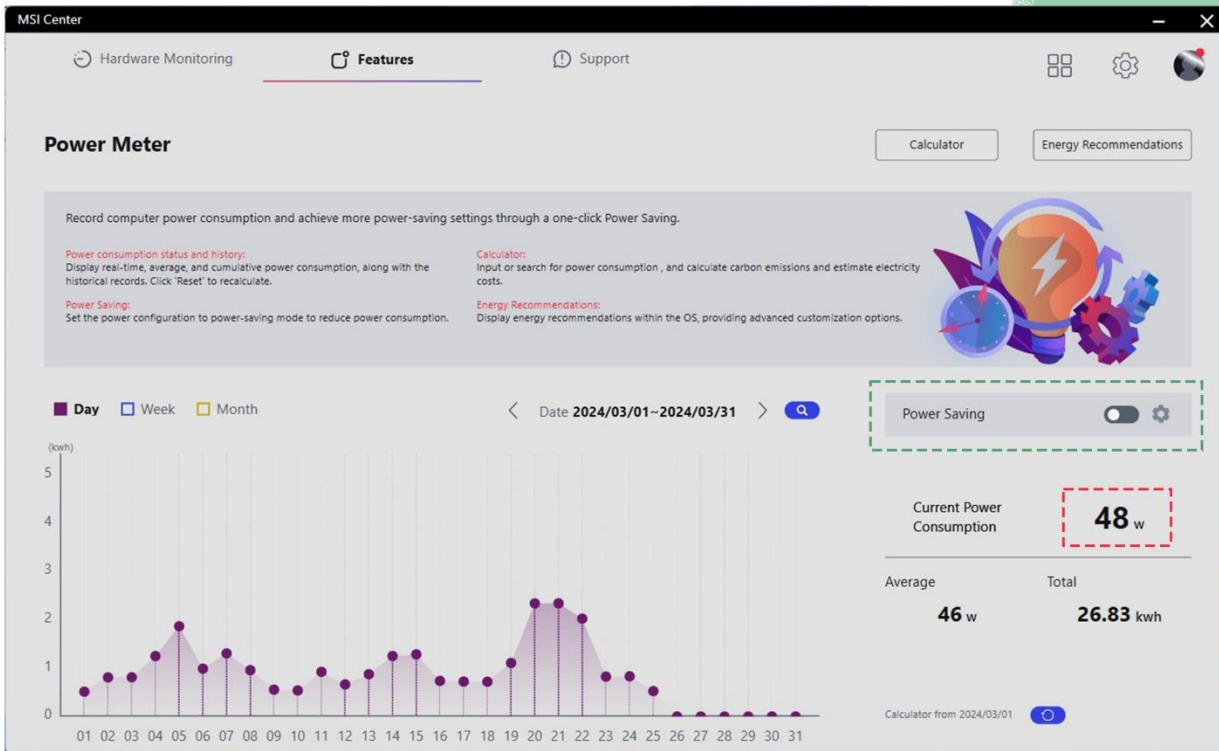


Power Meter 

One-click Power Saving 	Calculator 	Energy Recommendations 
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# One-click Power Saving

The MSI Power Meter can record the computer power consumption and achieve more power-saving settings through a One-click Power Saving button.



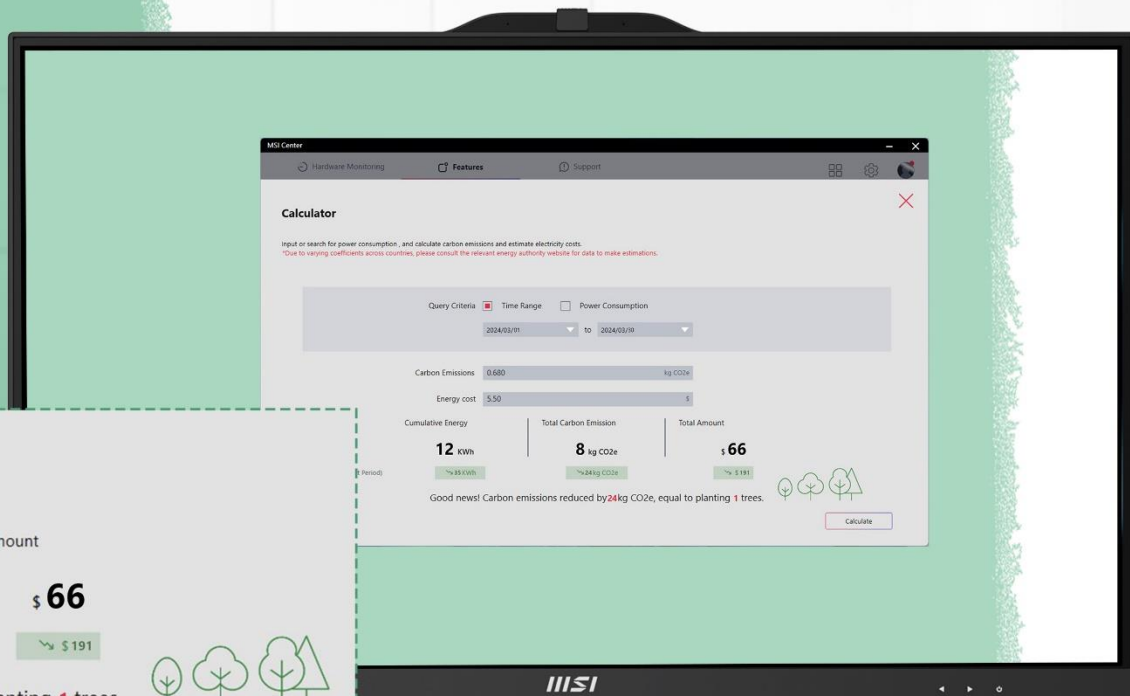
One-click  
Power Saving

A callout box highlights the 'One-click Power Saving' feature. It shows a 'Power Saving' toggle switch that is currently turned on. Below this, the 'Current Power Consumption' is displayed as 24 w. Further down, the 'Average' power consumption is 46 w and the 'Total' power consumption is 26.83 kwh. At the bottom, there is a 'Calculator' button with a circular arrow icon, labeled 'Calculator from 2024/03/01'.

# Calculator

By analyzing computer usage and energy costs, users can gain insights into their carbon footprint and the environmental benefits, such as trees saved.

## Calculator

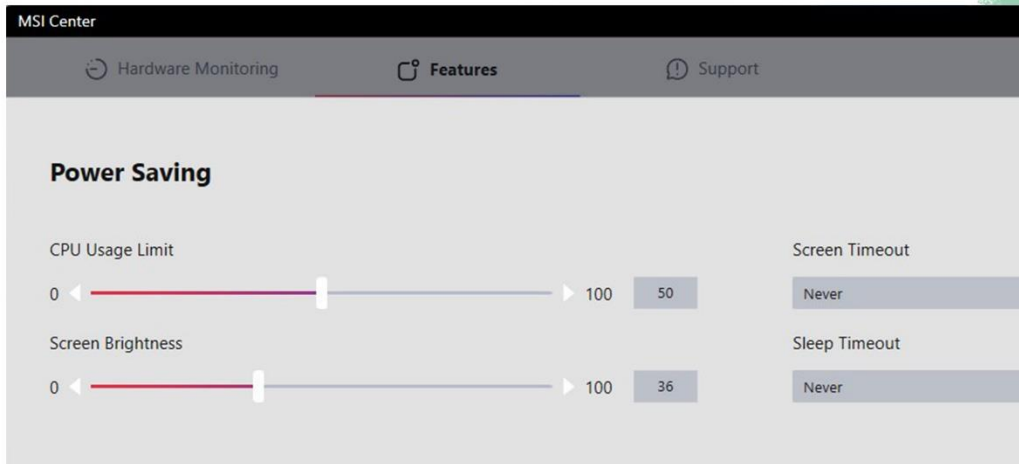


Carbon Emissions	0.680	kg CO2e
Energy cost	5.50	\$
Cumulative Energy	Total Carbon Emission	Total Amount
<b>12</b> kWh	<b>8</b> kg CO2e	<b>\$ 66</b>
↘ 35 kWh	↘ 24 kg CO2e	↘ \$ 191
Good news! Carbon emissions reduced by 24kg CO2e, equal to planting 1 trees.		

# Customizable Power-saving Settings

Energy recommendations collect settings that have an outsized impact on power consumption in one place, making it easy to reduce the power consumption.

## Customizable Power-Saving Settings



The screenshot shows the MSI Center interface with the 'Power Saving' section active. It features four adjustable settings:

- CPU Usage Limit:** A slider set to 50.
- Screen Timeout:** A dropdown menu set to 'Never'.
- Screen Brightness:** A slider set to 36.
- Sleep Timeout:** A dropdown menu set to 'Never'.

&amp;

## Energy Recommendations









### System > Power > Energy recommendations



#### Great start—keep going!

Apply energy saving recommendations to lower your carbon footprint  
[Learn more](#)

[Apply all](#)

-  Set the power mode for best energy efficiency [Apply](#)
-  Set the screen brightness for best energy efficiency [Apply](#)
-  Put my device to sleep after 10 minutes  
When you apply this change, we'll also update the timeout setting for your screen [Apply](#)
-  Turn off my screen after 3 minutes [Apply](#)
-  Help improve battery by optimizing the content shown and brightness [>](#)
-  Turn off my screen saver [>](#)

# Mini Yet Powerful

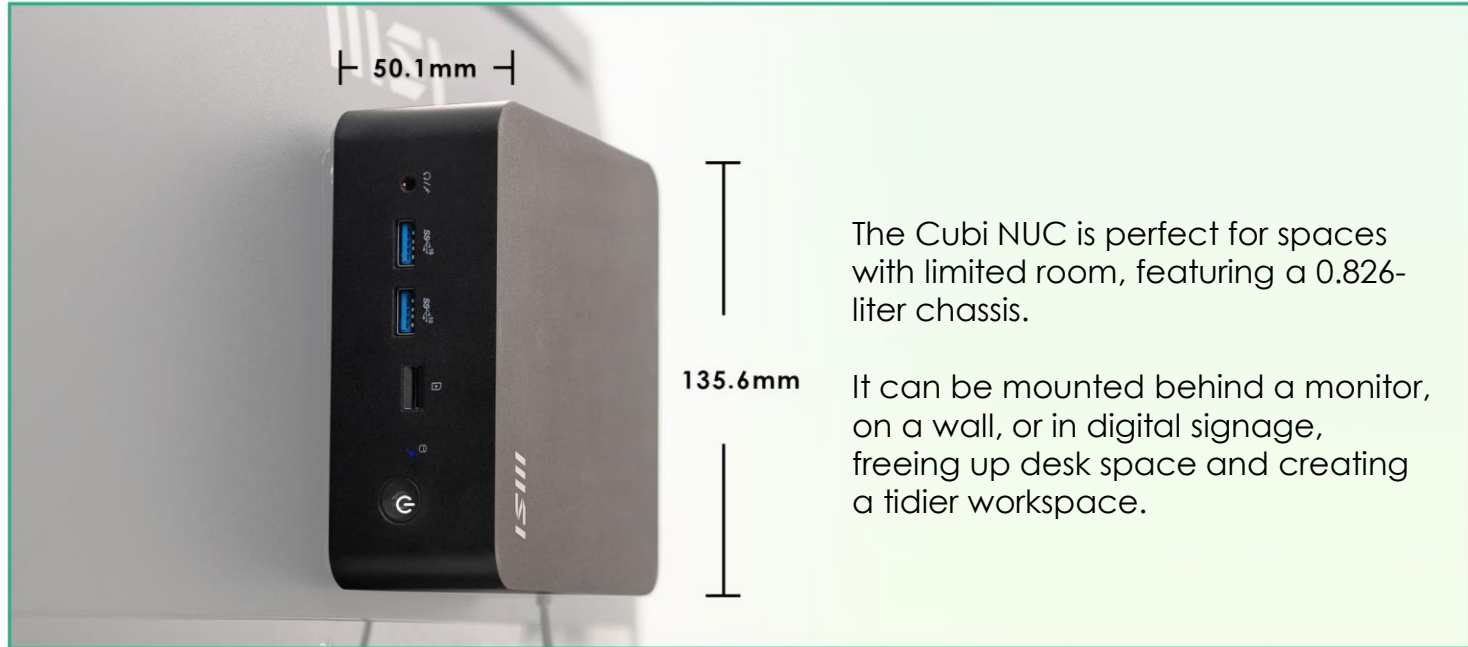
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The Cubi NUC is the ideal solution for confined spaces. It confidently handles a myriad of tasks, from basic computing to multimedia streaming and multitasking, leveraging their compact size.



# Maximize Space with the Versatile Cubi NUC



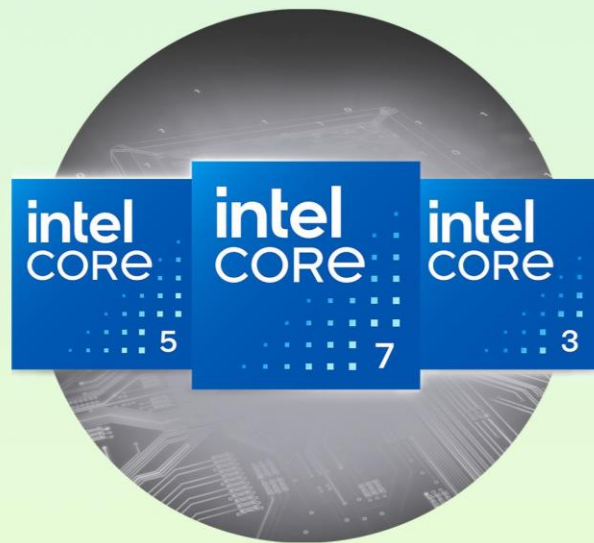
# Tailored for Professional Users

Equipped with up to Intel® Core™ i7-1365U with 10 cores and 12 threads, it provides faster and more reliable performance. It also features 5.20 GHz with Intel Turbo Boost Max Technology 3.0, which allows users to multitask a variety of applications with ease.

Up to  
**Core 7-1365U**

Support  
**Windows 11 Pro**

Up to 5200MHz  
**DDR5 64GB**  
Dual Channel Memory



\*The actual specification will vary by model.

# DDR5 Dual-Channel Memory

DDR5 memory with dual-channel can enhance work efficiency and quality, processing large amounts of data and complex multitasking quickly and reducing waiting times and delays.

\*The actual specification will vary by model.



# Thunderbolt 4: A Single Cable to Serve All



# Quadruple Display Support



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Supporting up to 4 displays with HDMI™-out and Thunderbolt 4 allows for increased productivity by providing more screen space to manage multiple applications simultaneously.



# VESA Mountable Design

With its VESA Mountable design, the Cubi NUC Series can be easily installed in any location, providing users with greater flexibility and efficient space management in both home and office settings.



# MSI Power Link



The Cubi NUC Series can be powered on using the power button on the MSI-selected monitor to bring the most convenient user experience.



Please visit the blog for more information:

<https://www.msi.com/blog/a-look-at-msi-power-link-conquering-convenience>

# Reliable Choice for Business

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Ensuring top quality is not just a catchphrase for us;  
it is our utmost priority to deliver a hassle-free and high-quality product.



# Intel® vPro® - a Foundation for Business Computing

Intel® vPro® offers a hardware-based security and remote management platform for business users.



# Intel® vPro® Platform



The Intel® vPro® provides 97% detection\* against all of the known and unknown threats without assistance from software security solutions.



\*According to the Enterprise Advanced Security Test

# Intel® vPro® - Security



Security



Manageability



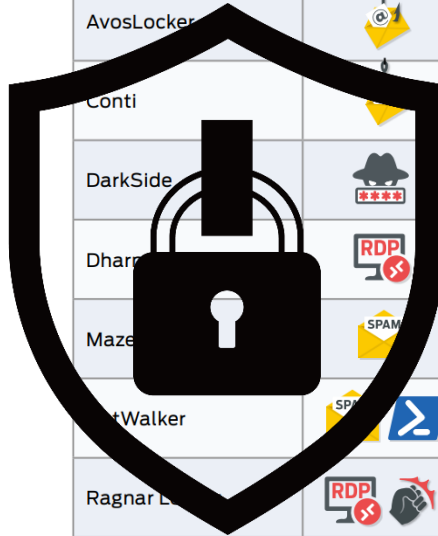
Stability



Performance



According to the Enterprise Advanced Security Test, which is tested by selab.uk, the Intel® vPro® provides **97% detection** against all of the known and unknown threats without assistance from software security solutions.



Hackers vs. Targets			
Attacker/APT Group	Method	Target	Details
AvosLocker			Hired out as 'Ransomware as a Service (RaaS)' and used against a wide range of targets.
Conti			Affects all versions of Windows. Attackers known to leak stolen data.
DarkSide			An RaaS operation that focusses on large, well resourced organisations.
Dharm			Installed on target systems over remote desktop connections (RDP).
Maze			Often installed using stolen or guessed credentials.
NotWalker			File-less ransomware that uses DLL injection in memory.
Ragnar L			Highly customised. Attackers known to leak stolen data.
REvil (Sodinokibi)			Considered the 4th most used ransomware globally.
Ryuk			Focussed on businesses. Attackers known to leak stolen data.

# Remote Manageability



Security



Manageability



Stability



Performance

IT Admin team will be able to remotely power up and access devices on Intel® vPro® Enterprise to diagnose, repair, patch, or update devices without disrupting employees' work or requiring them to come into the office.



# Manageability Boosted



Security



Manageability

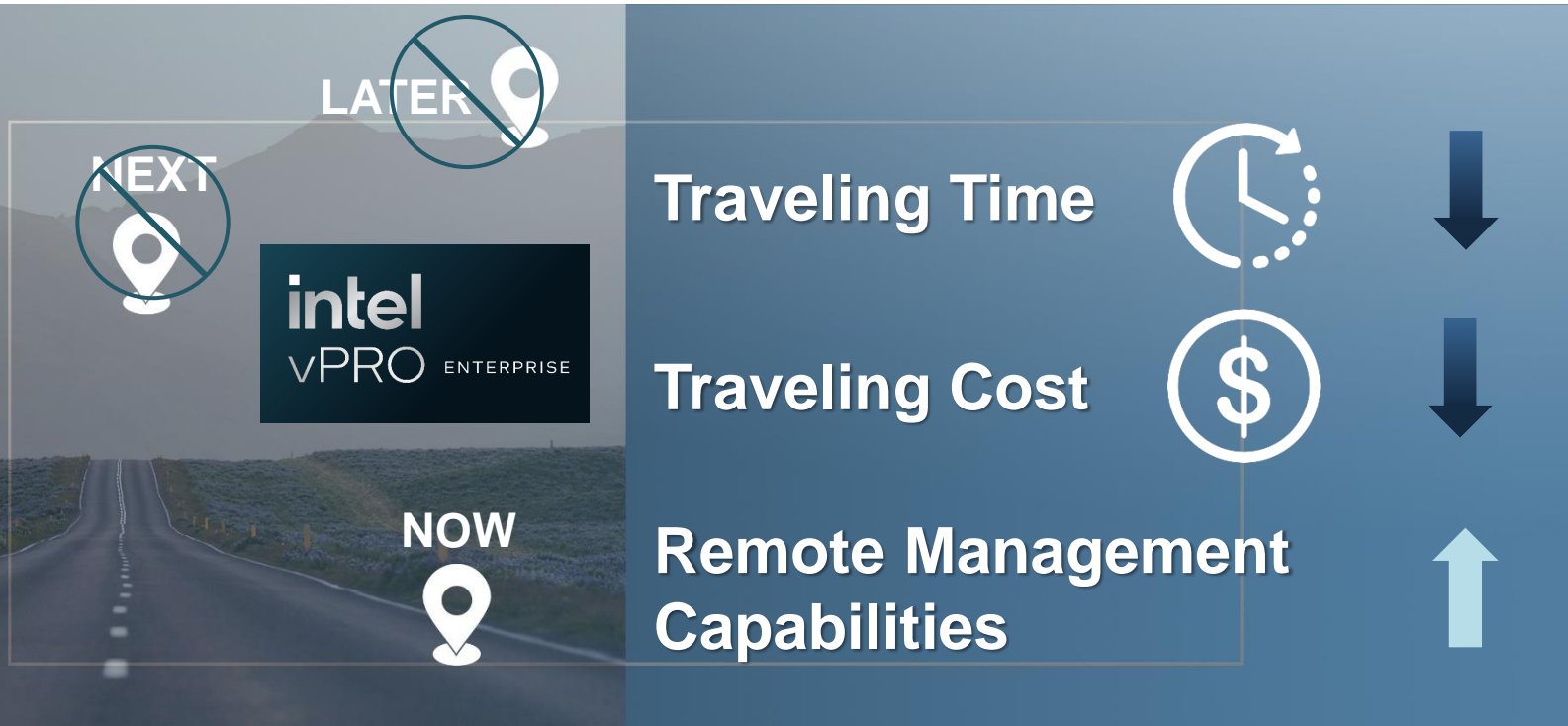


Stability



Performance

The IT team integrates Intel® vPro® technologies with their existing systems to provide a critical boost to remote management capabilities. This allowed them to access PC endpoints located at production factories **hours away from the IT office**. It became possible to patch in from anywhere and handle issues remotely at any time of day.





Security



Manageability



Stability



Performance

# Long-term Reliability, Stability and Compatibility

MSI products with Intel® Stable IT Platform Program (Intel® SIPP) offer high-quality components for business users through rigorous validation processes.

CPU

Chipset

Wired LAN

Wireless LAN

Thunderbolt™



intel  
vPRO ENTERPRISE

Intel® Stable IT  
Platform Program  
(SIPP)



Security



Manageability



Stability



Performance

# Improved Effectiveness from Improved Hardware Stability

IT efficiency improve from fewer support tickets and faster time to resolution, that employees also became more efficient and saved time from fewer hardware issues.



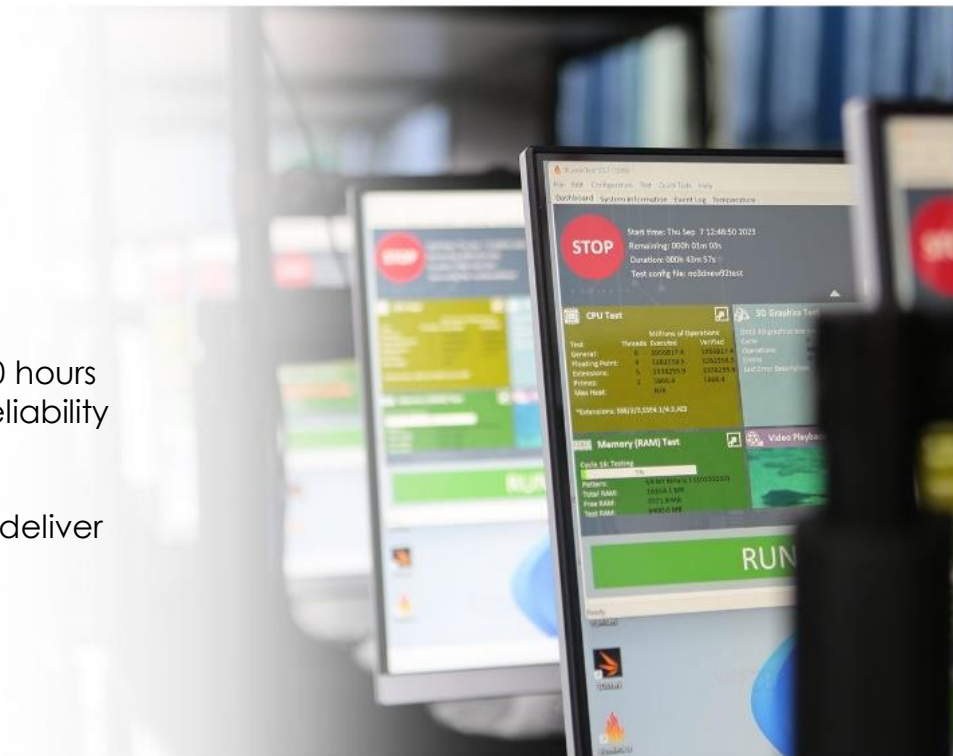
# 24 / 7 Qualified Reliability Test

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Our relentless commitment to quality is reflected in our extensive reliability testing, which generates over 246,000 hours of MTBF (Mean Time Between Failures). We assure 24/7 reliability and availability, delivering an effortless user experience.

Quality is not just a buzzword for us, it's our top priority to deliver a hassle-free and high-quality product.

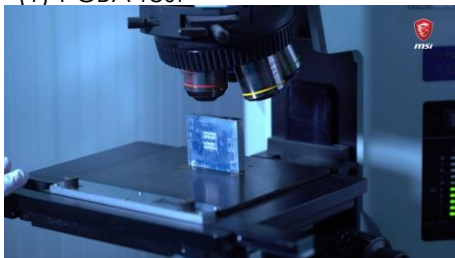




# Intensive Quality testing

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(1) PCBA test



(2) Motherboard test



(3) Vibration test (X & Y Axis)



(4) Drop test



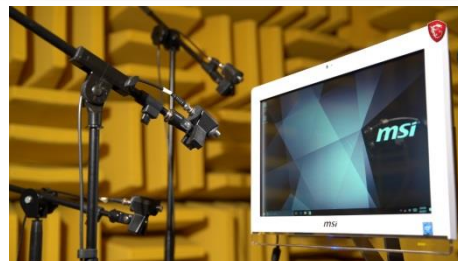
(5) Chamber test (Temp. & Humidity)



(6) Infrared (IR) test



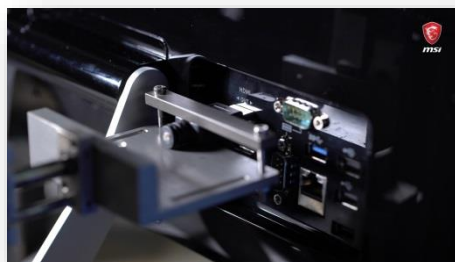
(7) Acoustic test



(8) Signal test



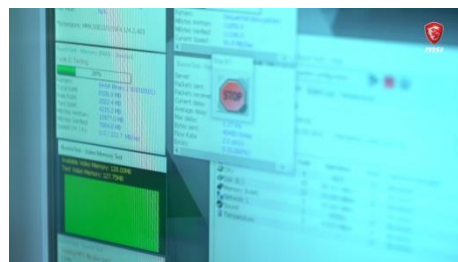
(9) I/O port life test



(10) Power test



(11) System performance test



MSI Quality Video <https://youtu.be/8GaxL6BWZcE>

# Uncompromising Product Quality

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MSI products exemplify uncompromising quality.

Through strict adherence to the MIL-STD-1916 testing standard in our factory inspections, we consistently achieve excellence in performance, durability, precision, and reliability.

This commitment places MSI at the forefront, enabling us to consistently deliver outstanding designs to customers.

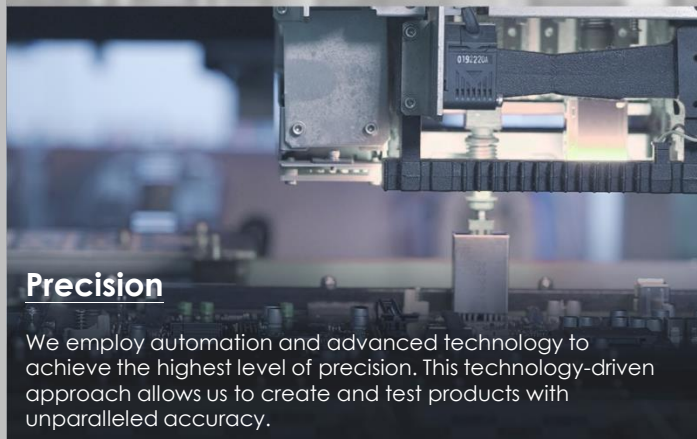
MSI modernized factory offering high-quality products Video:

<https://www.youtube.com/watch?v=ZvZ2GPn7CMc>



## Performance Assurance

MIL-STD-1916 testing guarantees MSI products meet high-performance standards, providing reliable and professional experiences with desktop PCs at their best.



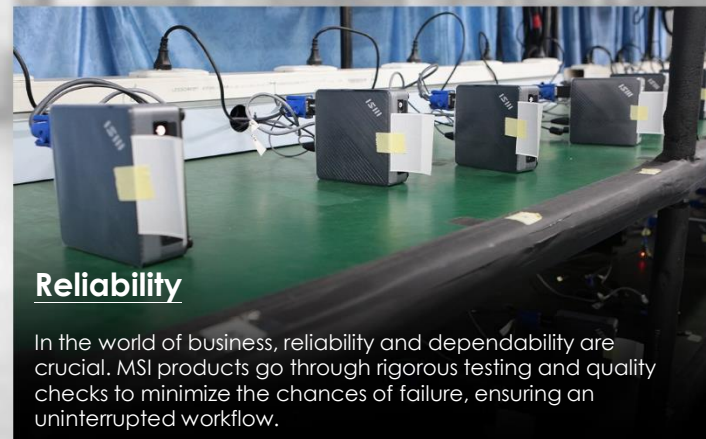
## Precision

We employ automation and advanced technology to achieve the highest level of precision. This technology-driven approach allows us to create and test products with unparalleled accuracy.



## Durability

MIL-STD-1916 testing ensures every component meets strict durability standards, making MSI products capable of lasting through extended gaming and work sessions while delivering reliable performance.



## Reliability

In the world of business, reliability and dependability are crucial. MSI products go through rigorous testing and quality checks to minimize the chances of failure, ensuring an uninterrupted workflow.

# Optimized for Versatility & Convenience

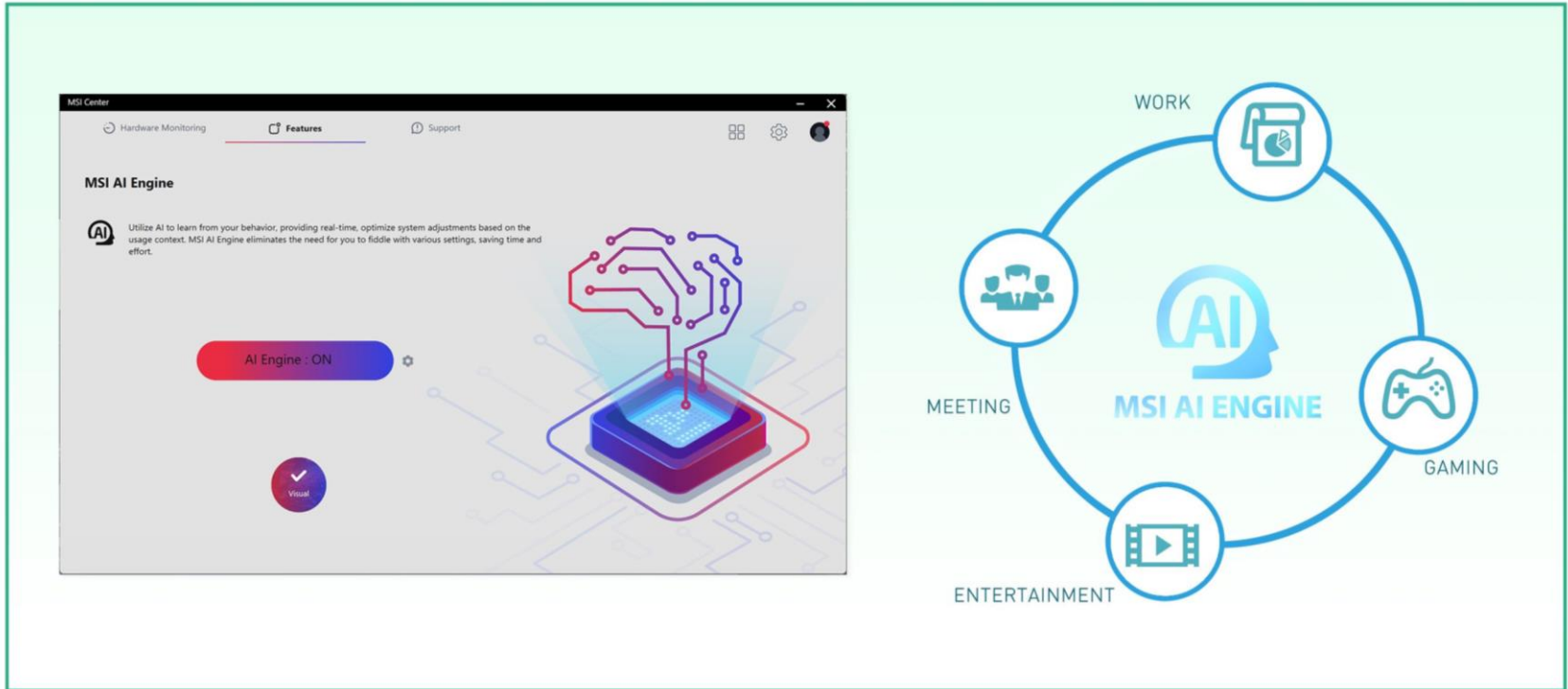
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Streamlining operations to achieve maximum productivity  
with minimal wasted effort or expense.

# MSI AI Engine

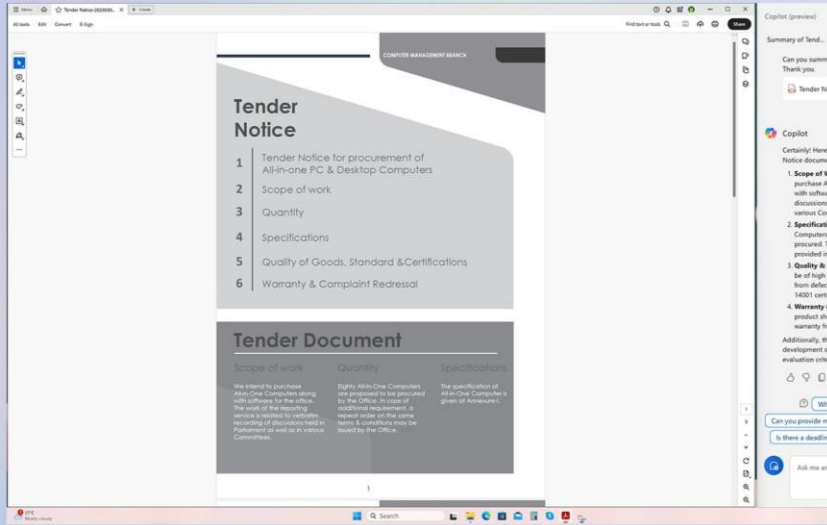
Experience the convenience of MSI AI Engine automatically detecting user scenarios to provide the optimal display mode, eliminating the need for manual adjustments.




# Microsoft Copilot



Work smarter, be more productive, boost creativity, and stay connected to the people and things in your life with Copilot—an AI companion that works everywhere you do and intelligently adapts to your needs.



 Copilot

Certainly! Here's a summary of the Tender Notice document:

- 1. Scope of Work:** The office intends to purchase All-in-One Computers along with software for verbatim recording of discussions held in Parliament and various Committees.
- 2. Specifications:** Eighty All-in-One Computers are proposed to be procured. The specification details are provided in Annexure-I.
- 3. Quality & Certifications:** Goods must be of high quality, unused, and free from defects. OEM certifications and ISO 14001 certification are required.
- 4. Warranty & Complaint Redressal:** The product should have a 3-year onsite warranty from the OEM.

Additionally, the document outlines website



## Copilot

Your everyday AI companion

# MSI Cloud Center

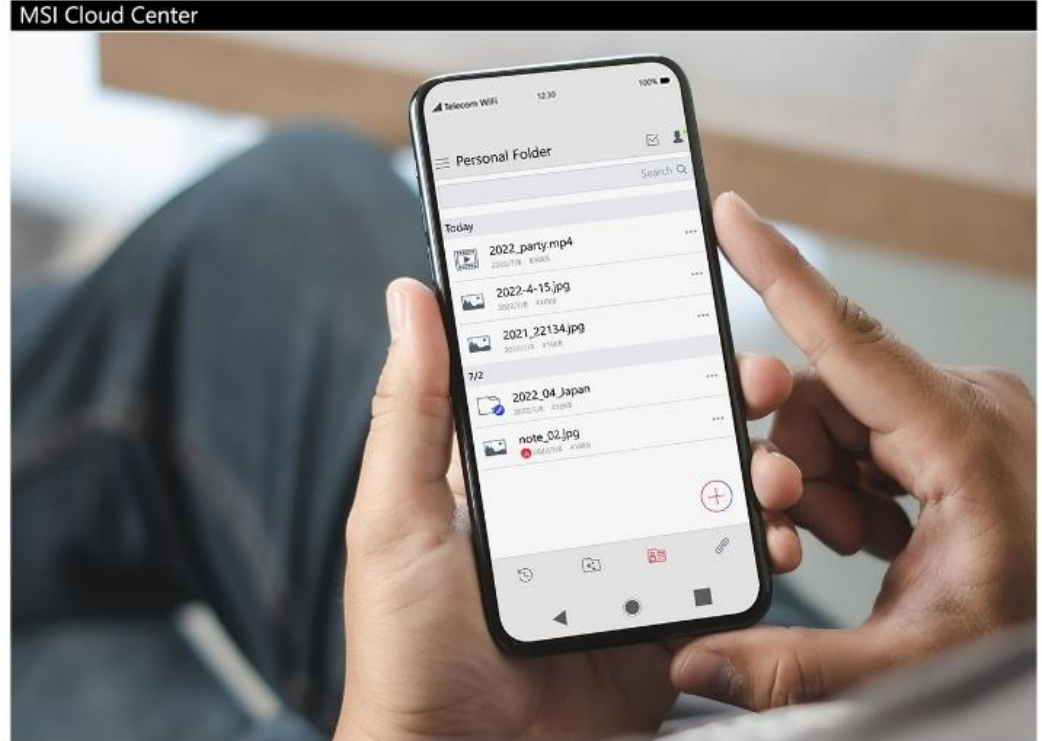
*msi*



Fast, secure & wireless backup  
between PC, Android & iOS Devices

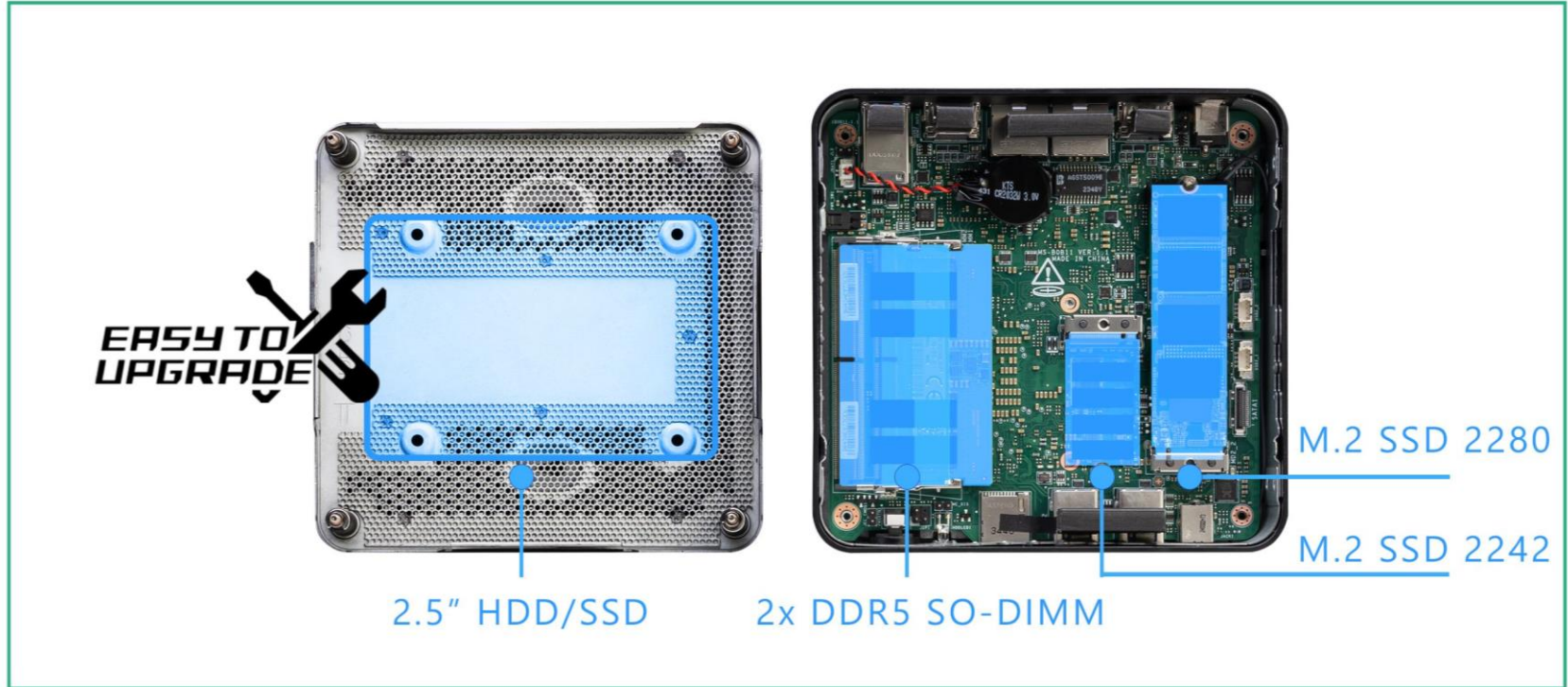
More information, please visit:

<https://www.msi.com/Landing/MSI-Cloud-Center>



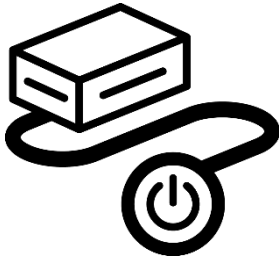
# Easy to Upgrade

Users can easily upgrade two SO-DIMM, two M.2 SSDs (2280 & 2242), or one 2.5" HDD/SSD by disassembling the cover. This makes Cubi NUC an even more flexible desktop and also reduces the time wasted on upgrading.



# External Power Switch

The external power switch significantly enhances the convenience of turning on the computer. In cases where the computer is situated in a hard-to-reach area, opting for the external power switch on the desk is far superior to bending down to turn it on.



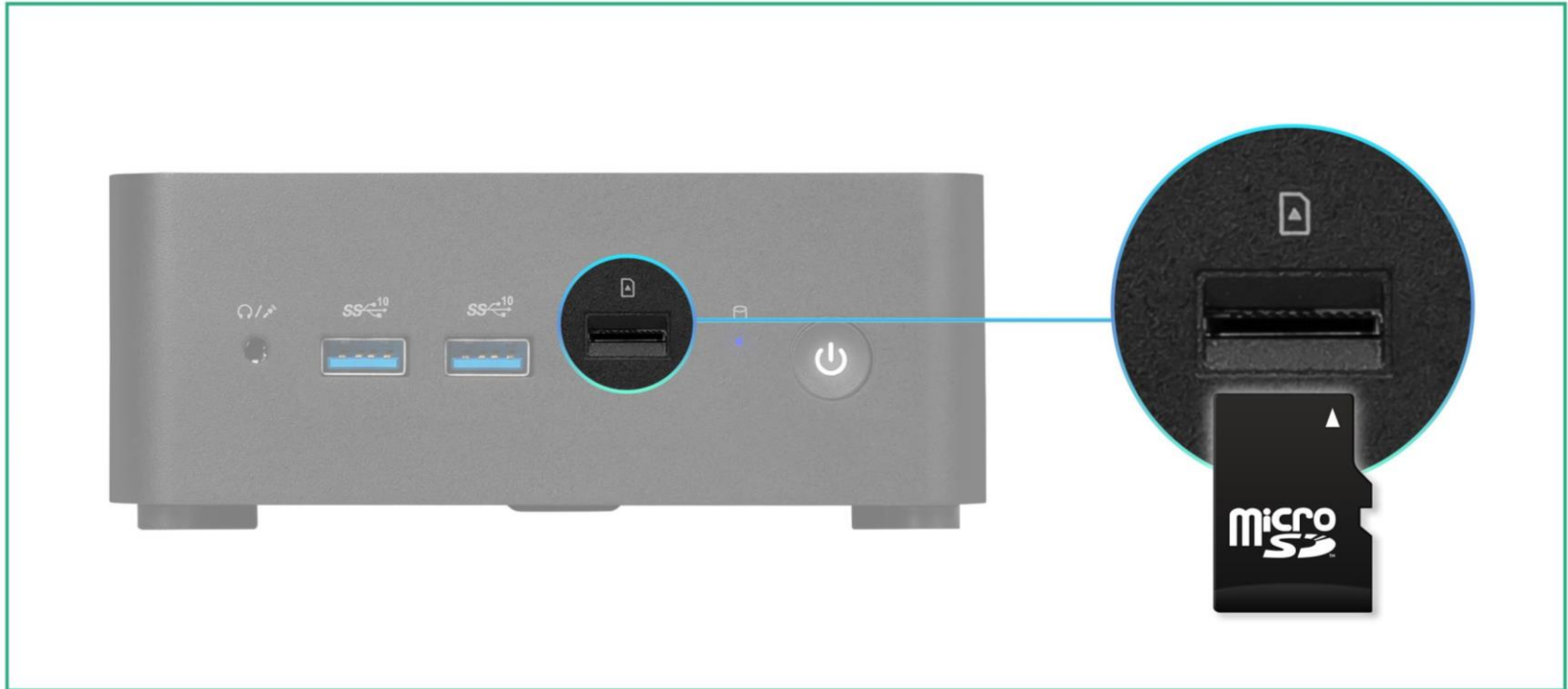
**External Power Switch**





# Built-in Card Reader

The Cubi NUC Series features a built-in card reader, enabling easy file transfers using a Micro SD card.



# Cubi NUC 13MQ I/O Port

With a various array of I/O ports, it can connect all devices users need at the same time so they can multi-task with those devices to make them work more efficiently.



Front:



## Front:

1. 1x Mic-in / Headphone-out combo
2. 2x USB 10Gbps Type A
3. 1x Micro-SD card Reader

## Side / Rear:

4. 1x External Power Switch Slot
5. 2x USB 10Gbps Type A
6. 1x HDMI out (supports 4K @60Hz as specified in HDMI 2.1)
7. 2x RJ45 LAN (2.5G)
8. 1x HDMI out (supports 4K @60Hz as specified in HDMI 2.1) which supports the MSI Power Link
9. 1x DC Jack
10. 1x Thunderbolt 4 (DP 1.4 alt-mode up to 4K@60Hz / PD-out 15W)
11. 1x Thunderbolt 4 (DP 1.4 alt-mode up to 4K@60Hz / PD-out 15W / PD-in up to 100W)
12. 1x Kensington Lock Slot

Operating System	Windows 11 Home or Windows 11 Pro
CPU	Intel® Core™ i7-1365U Processor (12M Cache, 1.80 GHz up to 5.20 GHz) Intel® Core™ i5-1345U Processor (12M Cache, 1.60 GHz up to 4.70 GHz)
Chipset	Intel® SoC
Storage	1x M.2 2280 SSD (PCIe, factory pre-installed), 1x M.2 2242 SSD (PCIe, free slot), 1x 2.5" HDD/SSD
System Memory	2x DDR5 up to 5200MHz SO-DIMMs, up to 64GB
Graphics	Intel® Iris® Xe Graphics with dual-channel memory Intel® UHD with single memory
Sound	Realtek® ALC256
I/O (Front)	2x USB 10Gbps Type A, 1x Mic-in / Headphone-out combo, 1x Micro-SD Card Reader
I/O (Rear)	2x Thunderbolt 4 (DP 1.4 alt-mode up to 4K@60Hz / PD-out 15W / One of TB4 supports PD-in), 2x USB 10Gbps Type A, 2x RJ45 (2.5G LAN), 2x HDMI out (supports 4K @60Hz as specified in HDMI 2.1)
I/O (Side)	1x Kensington Lock, 1x External Power Switch Pin Header
TPM	dTPM 2.0
Wireless LAN	Intel® Wi-Fi 6E AX211 which supports vPRO
Bluetooth	5.3 (for AX211)
LAN	1x I226-LM & 1x Intel I226-V
AC Adapter / PSU	120W
Cooling System	Fan Cooler
Volume	0.826 Liter (1.75 pint)
Dimension (WxDxH)	135.60 x 132.50 x 50.10 mm (5.34 x 5.22 x 1.97 inch)
Weight (N.W./ G.W.)	0.6257 kg (1.38 lbs) / 1.439 kg (3.17lbs)
VESA Mount	75 x 75 mm and 100 x 100 mm
Kensington Lock	Support
External Power Switch	Optional
Accessory	1x Quick Guide, 1x Power Cord

# Cubi NUC 13MQ Specification



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# Successful & Stylish B2B projects

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Over the past years, MSI has successfully supported Countless of commercial projects, including government tenders, restaurant & hotel facilitation, shopping mall navigation projects, school & university developments and professional office projects.

Find more details about many of these projects on: <https://www.msi.com/pro-projects/global>



# msi

## AI ERA OF COMPUTING



*msi*



Official Partner

**AMG**  
MOTORSPORT

