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Phanteks Evolv X2

Phanteks Evolv X2 Mid-Tower Gaming Chassis User Manual

Model: Evolv X2 (PH-ES524XTG_DMW01)

Introduction

This manual provides detailed instructions for the Phanteks Evolv X2 Mid-Tower Gaming Chassis. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance of your system.

Image: Front-side view of the Phanteks Evolv X2 Mid-Tower Gaming Chassis, showcasing its tempered glass panels and internal structure.

Package Contents

Verify that all components are present before proceeding with installation:

- Phanteks Evolv X2 Chassis
- Accessory Box (screws, zip ties, manual)
- D-RGB Lighting Cables
- Additional mounting hardware

Setup and Installation

Follow these steps for proper installation of your components into the Phanteks Evolv X2 chassis.

1. Preparing the Chassis

Carefully remove the tempered glass panels. Refer to the accessory box for specific instructions on panel removal to prevent damage.

Image: Internal view of the Phanteks Evolv X2 chassis, showing the spacious layout for component installation.

2. Motherboard Installation

The Evolv X2 supports ATX, Micro ATX, and Mini ITX motherboards. Install standoffs as required for your motherboard form factor. Secure the motherboard using the provided screws.
This chassis also supports ATX rear-connect mainboards, which can simplify cable management by routing connections to the rear of the motherboard tray.

Image: Close-up of the motherboard tray within the Phanteks Evolv X2, highlighting mounting points and cable

routing options.

3. Power Supply Installation

The power supply unit (PSU) is mounted at the front of the chassis. Secure the PSU using the provided screws.

4. Storage Drive Installation

Install your 2.5-inch and 3.5-inch storage drives into the designated bays. Refer to the accessory box for specific mounting hardware and locations.

5. Cooling System Configuration

The Evolv X2 features a vertical cooling system designed for optimal airflow. It supports:

- **Bottom Intake:** Triple 120mm fan positions for air intake.
- **Top Exhaust:** Triple 120mm fan positions with dedicated 360mm radiator clearance for exhaust.
- **Rear Exhaust:** One 120mm fan position.

Ensure fans are oriented correctly for intake and exhaust to maintain efficient airflow.

Image: View of the bottom fan mounting positions in the Phanteks Evolv X2, designed for air intake.

Image: Top view of the Phanteks Evolv X2, showing the fan and radiator mounting area for exhaust.

Image: Diagram illustrating the vertical airflow path within the Phanteks Evolv X2 chassis, with air entering from the bottom and exiting from the top.

6. Graphics Card Installation

Install your graphics card into the appropriate PCIe slot on your motherboard. Ensure it is securely fastened. The chassis provides ample space for high-end GPUs up to 380mm in length.

Image: Internal view of the Phanteks Evolv X2, showcasing a graphics card installed and integrated D-RGB lighting.

7. Cable Management

Utilize the cable routing channels and tie-down points behind the motherboard tray to organize cables. This improves airflow and aesthetics. The design supports ATX rear-connect mainboards for a cleaner setup.

Image: A fully assembled Phanteks Evolv X2 system demonstrating effective cable management and component layout.

8. D-RGB Lighting Connection

Connect the integrated D-RGB lighting cables to your motherboard's D-RGB header or a compatible D-RGB controller. Refer to your motherboard manual for specific D-RGB header locations.

Operating Instructions

Once all components are installed and connected, replace the tempered glass panels. Connect your peripherals and power cable, then power on your system.
The integrated D-RGB lighting can be controlled via compatible motherboard software or an external D-RGB controller, allowing for customization of lighting effects and colors.

Maintenance

Regular maintenance helps ensure the longevity and performance of your chassis and components.

- **Dust Filters:** Periodically clean the dust filters located at the intake points (e.g., bottom of the chassis) to maintain optimal airflow and prevent dust buildup inside the system.
- **Tempered Glass Panels:** Clean the tempered glass panels with a soft, lint-free cloth and a non-abrasive glass cleaner. Avoid harsh chemicals that may damage the glass or coatings.
- **Interior Cleaning:** Use compressed air to remove dust from internal components and fan blades. Ensure the system is powered off and unplugged before cleaning.

Troubleshooting

This section addresses common issues you might encounter.

- **System Not Powering On:**
  - Verify all power cables are securely connected to the motherboard, graphics card, and power supply.
  - Ensure the power supply switch is in the "ON" position.
  - Check front panel header connections to the motherboard (Power SW, Reset SW).
- **D-RGB Lighting Not Working:**
  - Confirm D-RGB cables are correctly connected to the motherboard's D-RGB header or a dedicated controller.
  - Ensure D-RGB software (if applicable) is installed and configured correctly.
- **Poor Airflow/High Temperatures:**
  - Check fan orientation; intake fans should draw air in, exhaust fans should push air out.
  - Clean dust filters and internal components.
  - Ensure no cables are obstructing airflow paths.

Specifications

Feature	Detail

Feature	Detail
Brand	Phanteks
Model Name	Evolv X2 Silver White
Item Model Number	PH-ES524XTG_DMW01
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro ATX, Mini ITX
Material	Steel Chassis, Aluminum panels, Tempered Glass Window, ABS plastic
Color	White
Item Weight	32 pounds
Product Dimensions (LxWxH)	17.87 x 8.97 x 23.15 inches
Number of USB 3.0 Ports	2
Cooling Method	Air, Water
Fan Size Support	120 Millimeters
Power Supply Mounting Type	Front Mount

Warranty Information

For detailed warranty information regarding your Phanteks Evolv X2 chassis, please refer to the official Phanteks website or the warranty card included with your product. Warranty terms and conditions may vary by region.

Support

If you require further assistance or have questions not covered in this manual, please visit the official Phanteks support website for FAQs, drivers, and contact information.

Visit Phanteks Support

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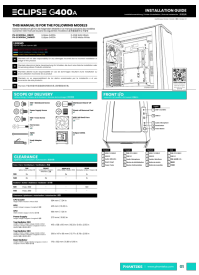
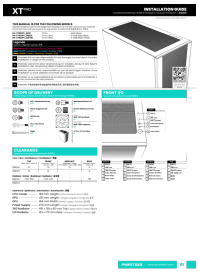
Related Documents - Evolv X2

	[Phanteks Evolv X Mid-Tower PC Case User Manual and Installation Guide] Comprehensive user manual and installation guide for the Phanteks Evolv X mid-tower PC case, detailing specifications, component installation, water cooling, D-RGB lighting, and support.
	[Phanteks Eclipse G400A PC Case Installation Guide] Comprehensive installation guide for the Phanteks Eclipse G400A PC case, detailing component installation, panel removal, storage solutions, fan configurations, and essential safety precautions.
	[Phanteks XT Pro & XT Pro Ultra PC Case Installation Guide] Comprehensive installation guide for Phanteks XT Pro and XT Pro Ultra PC cases, covering setup, hardware installation, specifications, and safety information. Includes model numbers PH-XT523P1_BK01, PH-XT523P1_DBK01, PH-XT523P1_DWT01.
	[Phanteks EVOLV SHIFT X User Manual] Comprehensive user manual for the Phanteks EVOLV SHIFT X computer case, detailing specifications, setup instructions, pro tips, and support information.
	[Phanteks Enthoo Pro User Manual] Comprehensive user manual for the Phanteks Enthoo Pro full tower computer case, detailing specifications, installation guides, and support.
	[Phanteks Enthoo Evolv ATX Tempered Glass Edition User Manual] A comprehensive user manual for the Phanteks Enthoo Evolv ATX Tempered Glass Edition PC case, detailing specifications, installation procedures for components like motherboards, power supplies, drives, and cooling systems, as well as upgrade options and support information.

Documents - Phanteks – Evolv X2

[pdf] User Manual Installation Guide Specifications Guide

vv INSTALLATION GUIDE 21 янв 2025 г — For more information and product specifications visit phanteks Weitere Informationen und Produktspezifikationen finden Sie unter Evolv X2 Manual v1 2 manuals |||

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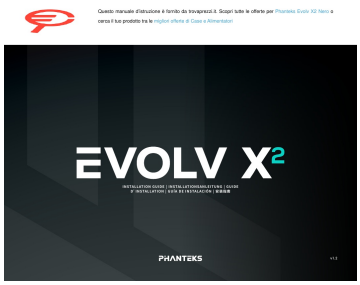

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[pdf] Instructions Catalog

PHANTEKS Evolv X2 Compliance and SafetyPhanteks See Through Vertical Cooling Mid Tower PC Case OcUKe609d8a938066f11f0b01929edbadac55c2811c2 Series phanteks de du en fi fr hu it pl pt es svimg overclockers co uk assets e 6 9 e609d8a938066f11f0b01929edbadac55c2811c2 sv Konformität und SicherheitPHANTEKS SafetyPHANTEKS Gehäuse Midi E ATX Tempered Glass DRGB weißPhanteks OcUKEvolv 14e1fd77e609d8a938066f11f0b01929edbadac55c2811c2 svcaseking on demandware static Sites master catalog caseking default dw8a1d3e24 images data 14e1fd77img ||| ||| Safety Instructions and Warnings Evolv Series X2

Safety Instructions and Warnings Evolv Series X2 ...

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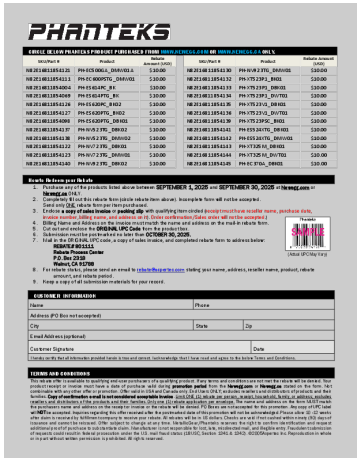

PHANTEKS

[Phanteks Rebate Offer: Save on PC Components from Newegg]

Details of a mail-in rebate offer from Phanteks for various PC components purchased at Newegg.com and Newegg.ca. Includes product list, redemption instructions, and terms and conditions.

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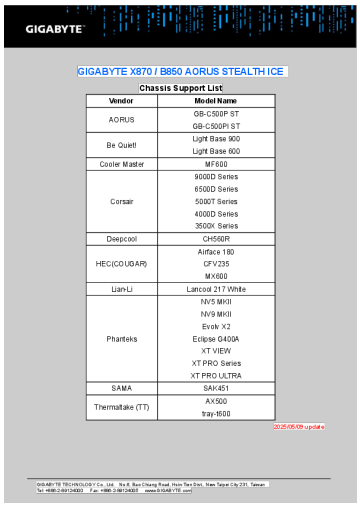

GIGABYTE

GIGABYTE X870 / B850 AORUS STEALTH ICE

Chassis Support List

Vendor	Model Name
AORUS	GB-C500P ST GB-C500PI ST
Be Quiet!	Light Base 900 Light Base 600
Cooler Master	MF600
Corsair	9000D Series 6500D Series 5000T Series 4000D Series 3500X Series
Deepcool	CH560R
HEC(COUGAR)	Airface 180 CFV235 MX600
Lian-Li	Lancool 217 White
Phanteks	NV5 MKII NV9 MKII Evolv X2 Eclipse G400A XT VIEW XT PRO Series XT PRO ULTRA
SAMA	SAK451
Thermaltake (TT)	AX500 tray-t600

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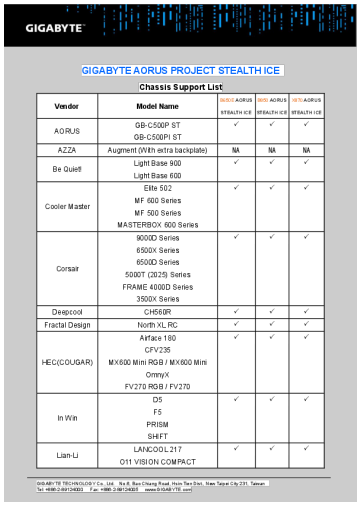

GIGABYTE

GIGABYTE AORUS PROJECT STEALTH ICE

Chassis Support List

Vendor	Model Name	[illegible] AORUS STEALTH ICE	[illegible] AORUS STEALTH ICE	[illegible] AORUS STEALTH ICE
AORUS	GB-C500P ST GB-C500PI ST	✓	✓	✓
AZZA	Augment (With extra backplate)	NA	NA	NA
Be Quiet!	Light Base 900 Light Base 600	✓	✓	✓
Cooler Master	Elite 502 MF 600 Series MF 500 Series MASTERBOX 600 Series	✓	✓	✓
Corsair	9000D Series 6500X Series 6500D Series 5000T (2025) Series FRAME 4000D Series 3500X Series	✓	✓	✓
Deepcool	CH560R	✓	✓	✓
Fractal Design	North XL RC	✓	✓	✓
HEC(COUGAR)	Airface 180 CFV235 MX600 Mini RGB / MX600 Mini Ommy:X FV270 RGB / FV270	✓	✓	✓
In Win	D5 F5 PRISM SHIFT	✓	✓	✓
Lian-Li	LANCOOL 217 O11 VISION COMPACT	✓	✓	✓

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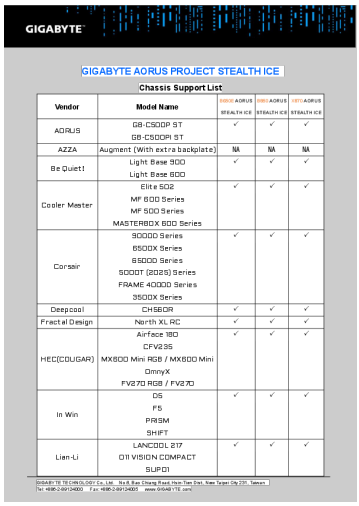

GIGABYTE

GIGABYTE AORUS PROJECT STEALTH ICE

Chassis Support List

Vendor	Model Name	B650E AORUS STEALTH ICE	B850 AORUS STEALTH ICE	X870 AORUS STEALTH ICE
AORUS	GB-C500P ST GB-C500PI ST	✓	✓	✓
AZZA	Augment (With extra backplate)	NA	NA	NA
Be Quiet!	Light Base 900 Light Base 600	✓	✓	✓
Cooler Master	Elite 502 MF 600 Series MF 500 Series MASTERBOX 600 Series	✓	✓	✓
Corsair	9000D Series 6500X Series 6500D Series 5000T (2025) Series FRAME 4000D Series 3500X Series	✓	✓	✓
Deepcool	CH560R	✓	✓	✓
Fractal Design	North XL RC	✓	✓	✓
HEC(COUGAR)	Airface 180 CFV235 MX600 Mini RGB / MX600 Mini OmnyX FV270 RGB / FV270	✓	✓	✓
In Win	D5 F5 PRISM SHIFT	✓	✓	✓
Lian-Li	LANCOOL 217 O11 VISION COMPACT SUP01	✓	✓	✓

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[GIGABYTE AORUS PROJECT STEALTH ICE Chassis Support List]

A comprehensive list of chassis compatible with GIGABYTE AORUS PROJECT STEALTH ICE motherboards, including support for B650E AORUS, B850 AORUS, and X870 AORUS Stealth Ice configurations.

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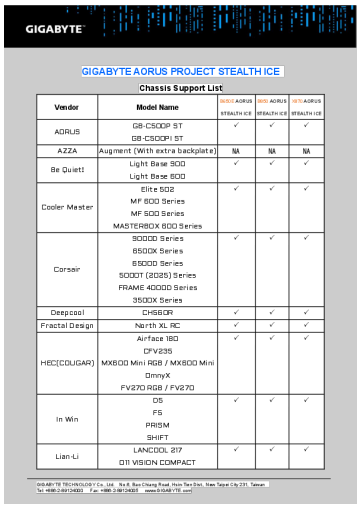

GIGABYTE

GIGABYTE AORUS PROJECT STEALTH ICE

Chassis Support List

Vendor	Model Name	B650E AORUS STEALTH ICE	B850 AORUS STEALTH ICE	X870 AORUS STEALTH ICE
AORUS	GB-C500P ST GB-C500PI ST	✓	✓	✓
AZZA	Augment (With extra backplate)	NA	NA	NA
Be Quiet!	Light Base 900 Light Base 600	✓	✓	✓
Cooler Master	Elite 502 MF 600 Series MF 500 Series MASTERBOX 600 Series	✓	✓	✓
Corsair	9000D Series 6500X Series 6500D Series 5000T (2025) Series FRAME 4000D Series 3500X Series	✓	✓	✓
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Fractal Design	North XL RC	✓	✓	✓
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In Win	D5 F5 PRISM SHIFT	✓	✓	✓
Lian-Li	LANCOOL 217 O11 VISION COMPACT	✓	✓	✓

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A comprehensive list of chassis models compatible with GIGABYTE AORUS PROJECT STEALTH ICE motherboards, including support for B650E AORUS STEALTH ICE, B850 AORUS STEALTH ICE, and X870 AORUS STEALTH ICE.

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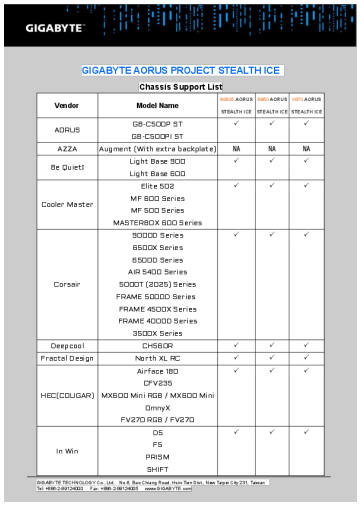

GIGABYTE

GIGABYTE AORUS PROJECT STEALTH ICE

Chassis Support List

Vendor	Model Name	B650E AORUS STEALTH ICE	B850 AORUS STEALTH ICE	X870 AORUS STEALTH ICE
AORUS	GB-C500P ST GB-C500PI ST	✓	✓	✓
AZZA	Augment (With extra backplate)	NA	NA	NA
Be Quiet!	Light Base 900 Light Base 600	✓	✓	✓
Cooler Master	Elite 502 MF 600 Series MF 500 Series MASTERBOX 600 Series	✓	✓	✓
Corsair	9000D Series 6500X Series 6500D Series AIR 5400 Series 5000T (2025) Series FRAME 5000D Series FRAME 4500X Series FRAME 4000D Series 3500X Series	✓	✓	✓
Deepcool	CH560R	✓	✓	✓
Fractal Design	North XL RC	✓	✓	✓
HEC(COUGAR)	Airface 180 CFV235 MX600 Mini RGB / MX600 Mini OmnyX FV270 RGB / FV270	✓	✓	✓
In Win	D5 F5 PRISM SHIFT	✓	✓	✓

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[GIGABYTE AORUS PROJECT STEALTH ICE Chassis Support List]

Compatibility list for GIGABYTE AORUS PROJECT STEALTH ICE motherboards with various PC chassis models from leading vendors like Corsair, Cooler Master, Lian-Li, and more. Find the perfect chassis for your build.

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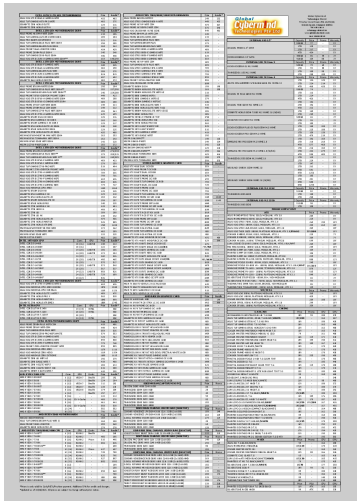

[Global Cybermind Technologies - PC Components Price List & Catalog]

Explore the latest PC components from Global Cybermind Technologies. This catalog features a wide selection of CPUs, motherboards, graphics cards, RAM, storage, power supplies, cases, and peripherals from leading brands like Intel, AMD, NVIDIA, ASUS, Gigabyte, MSI, and more.

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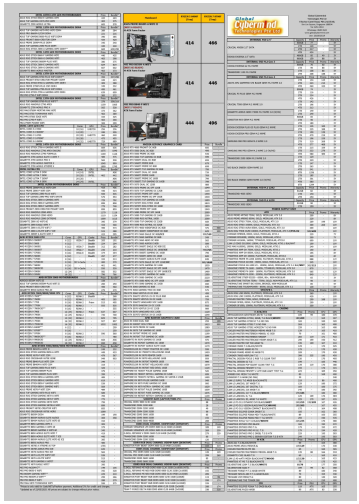

[Global Cybermind PC Components & Peripherals Catalog]

Discover a wide range of PC components and peripherals from top brands like Intel, AMD, ASUS, NVIDIA, and more at Global Cybermind. Browse CPUs, GPUs, motherboards, SSDs, RAM, cases, and accessories.

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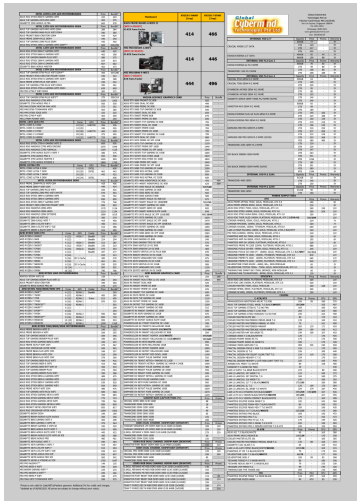

[Global Cybermind Technologies Pte Ltd - Computer Components and Systems Pricelist]

Explore the latest pricelist from Global Cybermind Technologies Pte Ltd, featuring a wide range of computer components including CPUs, GPUs, RAM, SSDs, motherboards, power supplies, and casings. Find deals on Intel and AMD processors, NVIDIA and AMD graphics cards, and various peripherals.

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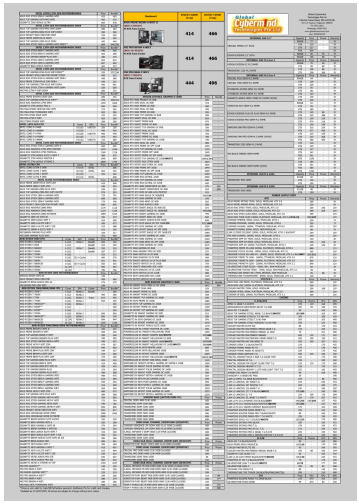

[Global Cybermind Technologies Pte Ltd - Computer Components Pricelist]

A comprehensive pricelist from Global Cybermind Technologies Pte Ltd detailing a wide range of computer components including CPUs, GPUs, motherboards, storage, power supplies, cases, cooling solutions, and peripherals. The list features products from leading brands like Intel, AMD, ASUS, Gigabyte, MSI, Corsair, and more, with pricing and specifications.

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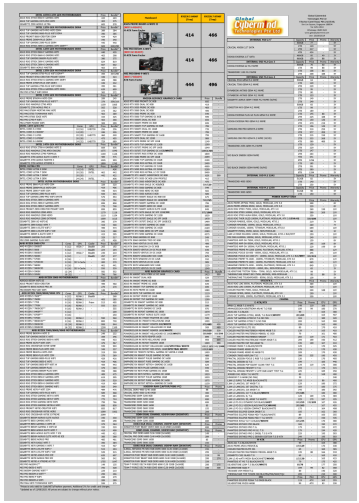
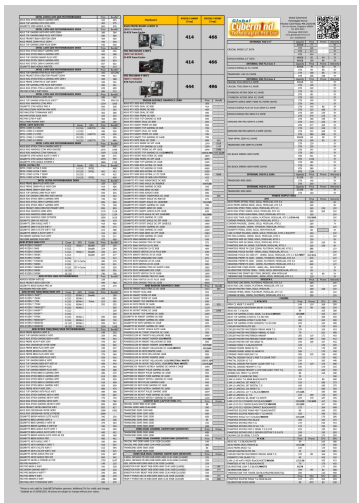


[Global Cybermind Technologies: Comprehensive Computer Hardware and Peripherals Price List]

Explore the latest pricing and specifications for a wide array of computer components and peripherals from Global Cybermind Technologies. This catalog features SSDs, RAM, CPUs, motherboards, graphics cards, power supplies, PC cases, networking equipment, and various accessories, updated as of August 2025.

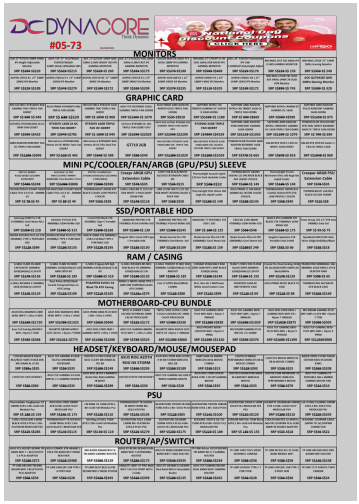
lang:fr score:13 filesize: 1.24 M page_count: 2 document date: 2025-08-13



[Global Cybermind PC Component Pricelist - Latest Deals & Specifications]

Comprehensive pricelist from Global Cybermind Technologies featuring a wide range of PC components including CPUs, GPUs, SSDs, RAM, motherboards, power supplies, and cases. Updated prices and specifications.

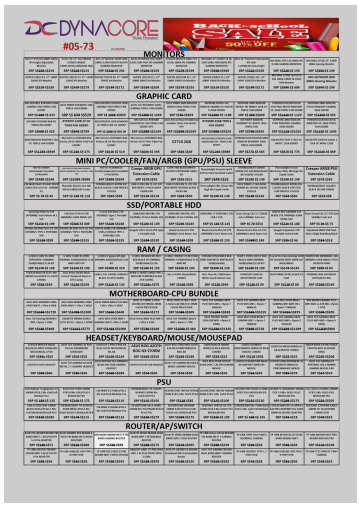
lang:de score:13 filesize: 1.26 M page_count: 2 document date: 2025-09-28



[Dynacore Technologies PC Component Price List - August 2025]

Comprehensive price list for PC components from Dynacore Technologies, featuring monitors, graphic cards, CPUs, motherboards, storage, networking, and more, updated August 2025.

lang:i-klingon score:10 filesize: 2.98 M page_count: 5 document date: 0000-00-00



[pdf] Price List

DCT PC Component Price ListPrice List Dynacore Technologies Pte LtdDynacore PLcdn shopify s files 1 0891 2889 4755 PL v 0829 |||

#05-73 11/10/2025 MONITORS Dell 27 P2725H 1080P 100Hz ASUS TUF 27 VG27WQ1B AOC 27 Q27G4F 1440P ... w ATX TG Casing W/ 3 ARGB Fans9 9Black T RWTGhi6t5e 0S 650W Blk/Wht Atx3.0 80 Gold Psu75 Phanteks **Evolv X2** Black TG ATX Casing 189 TR TG750S 750W Blk/Wht Atx3.0 80 Gold Psu90 Phanteks **Evolv X2** Wh...

lang:tl score:9 filesize: 3.95 M page_count: 8 document date: 0000-00-00