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MSI PRO DP21 14M Intel Core 7 14700, Barebone, DP21 14M, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), Intel Graphics/DDR5/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3

Brand : MSI

Product code: PRO DP21 14M I7 14700 BB

Product name : MSI PRO DP21 14M Intel Core 7 14700, Barebone, DP21 14M, SFF, Mini Computer, HTPC, (NO RAM, NO Storage, NO OS), Intel Graphics/DDR5/Dual HDMI/Dual LAN/WiFi 6E/BT 5.3

- INTEL 14TH GEN CORE i7 PC - DP21 14M is a compact (2.3L) mini PC featuring an Intel 14th Gen. Core i7-14700 processor with 20-core / 28-thread architecture (2.1GHz base frequency, 5.4GHz max. turbo); Windows 11 Pro software pre-installed
- UHD GRAPHICS - supports 4K display at up to 60Hz - ideal for watching hi-res movies; The rear I/O includes HDMI 2.0 & DP 1.4 ports for dual monitor setups
- supports up to 2 x 2.5" HDD/SSD & 1 x M.2 with auto switch
- The dTPM2.0 (Trusted Platform Module 2.0) technology provides security for storing sensitive data & passwords. A server-grade thermal module distributes the cooling of different components within the system
- MSI Power Meter & MSI AI Engine - Power Meter enables one-click power saving, carbon emission calculation & electricity cost estimation
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Processor

Processor manufacturer	Intel
Processor family	Intel® Core™ i7
Processor cores	20
Processor threads	16
Processor boost frequency	5.4 GHz
Processor frequency	2.1 GHz
Performance cores	8
Efficient cores	12
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.3 GHz
Performance-core base frequency	2.1 GHz
Built-in processor *	✔
Processor cache	33 MB
L3 cache	33 MB
Thermal Design Power (TDP)	65 W
ECC supported by processor	✘

Memory

Maximum internal memory	64 GB
Supported memory clock speeds	5600 MHz
Supported memory types	DDR5-SDRAM
Memory channels	Dual-channel
ECC	✘
Non-ECC	✔

Storage

Card reader integrated	✘

Processor special features

Intel® vPro™ Platform Eligibility	✘
Intel On-Demand Power Redundancy Technology	✘
Intel® High Definition Audio (Intel® HD Audio)	✔
Embedded options available	✘
Intel Dual Display Capable Technology	✔
Intel® Virtualization Technology (Intel® VT)	✔
Intel Rapid Storage Technology	✔
Intel® Anti-Theft Technology (Intel® AT)	✘
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Quick Sync Video Technology	✔
Intel® InTru™ 3D Technology	✘
Intel® Insider™	✘
Intel® Wireless Display (Intel® WiDi)	✘
Intel FDI Technology	✘
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel® Turbo Boost Technology	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel VT-x with Extended Page Tables (EPT)	✔

Graphics

On-board graphics card *	✔
Graphics card family	Intel
On-board graphics card model	Intel UHD Graphics 770
Maximum resolution	4096 x 2160 pixels
Number of displays supported	3

Display

Touchscreen	✘

Audio

Built-in speaker(s) *	✘

Network

Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
WLAN controller model	Intel Wi-Fi 6E AX211
Ethernet LAN *	✔
Copper ethernet cabling technology	10BASE-TX, 100BASE-TX, 1000BASE-TX
Wi-Fi *	✔
LAN controller	Realtek RTL8111H
Bluetooth	✔
Bluetooth version	5.3
Near Field Communication (NFC)	✘
Bluetooth Low Energy (BLE)	✔

Ports & interfaces

USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Internal USB 2.0 ports quantity	4
Internal USB 3.2 Gen 1 (3.1 Gen 1) ports quantity	2
HDMI ports quantity *	1
HDMI version	2.1
DVI port	✘
DisplayPorts quantity	1
DisplayPort version	1.4
Microphone in	✔
Headphone outputs	1
Combo headphone/mic port	✘
Ethernet LAN (RJ-45) ports *	1
S/PDIF out port	✘
Consumer infrared headers	✘
Serial port via internal header	✘
USB charging	✔
TV-out	✘
DC-in jack	✘

Expansion slots

PCI Express slots version	4.0
PCI Express x1 slots	1
PCI Express x16 slots	1
Number of M.2 (M) slots	2

Design

Chassis type *	Mini-Tower

Processor special features

Intel 64	✔
Intel® My WiFi Technology (Intel® MWT)	✘
Idle States	✔
Enhanced Intel SpeedStep Technology	✔
Intel Demand Based Switching	✘
Thermal Monitoring Technologies	✔
Intel Fast Memory Access	✘
Intel Flex Memory Access	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel Trusted Execution Technology	✘
Execute Disable Bit	✔
Intel® Smart Cache	✔
Intel Visual BIOS	✘
Intel Express BIOS update	✘
Intel TSX-NI	✘
Intel® Matrix Storage Technology (Intel® MST)	✘
Intel Smart Connect Technology	✘
Intel® Small Business Advantage (Intel® SBA)	✘
Intel® Secure Key	✔
Intel® Smart Response Technology	✘
Intel Stable Image Platform Program (SIPP)	✘
Intel® OS Guard	✔
Conflict-Free	✔
Intel® Rapid Start Technology	✘
Intel Advanced Management Technology	✘
Intel Clear Video Technology	✔
Intel® Unite™	✘
Intel Unite installed	✘
Intel® Optane™ Memory Ready	✔
Intel® Platform Trust Technology (Intel® PTT)	✔
Intel Virtualization Technology (VT-x)	✔

Technical details

Compliance certificates	BSMI, CB, CE, Federal Communications Commission (FCC), UL

Certificates

Waste Electrical and Electronic Equipment (WEEE) compliance	✔

Software

Windows operating systems supported	✘

Power

Power supply type *	External AC adapter
Power supply	120 W
Number of power supply units	1
AC input voltage	100 - 240 V
AC input frequency	50/60 Hz

Operational conditions

Operating temperature (T-T)	0 - 40 °C

Design

Product colour *	Black
Cooling type *	Active
On/off switch	✔
LED indicators	✔
Housing material	Metal, Plastic
Cable lock slot	✔
Cable lock slot type	Kensington
Product type *	Mini PC barebone

Performance

Motherboard form factor	micro ATX
Motherboard chipset	Intel H610
Processor socket	LGA 1700
Number of processors supported	1
Compatible processor series	Intel Core i7 14th Gen
Supported processor frequency (max)	5.4 GHz
BIOS type	UEFI
BIOS memory size	256 Mbit
ACPI version	6.3
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Audio output channels	7.1 channels
Audio chip	Realtek ALC897
Consumer infrared Rx sensor	✘

Operational conditions

Storage temperature (T-T)	-20 - 60 °C
Operating relative humidity (H-H)	10 - 90%

Weight & dimensions

Width	204 mm
Depth	208 mm
Height	54.8 mm
Weight	1.27 kg
Package width	271 mm
Package depth	382 mm
Package height	122 mm
Package weight	2.8 kg

Packaging content

Power cord included	✔
AC adapter included	✔
Quick start guide	✔
Drivers included	✔
Display included	✘
Mouse included	✘
Keyboard included	✘

Other features

Country of origin	China
Introduction month	June
Introduction year	2025
Warranty period	3 year(s)

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