msi

MSI PRO DP21 13M-090BEU PC/workstation barebone 2,3L maat pc Zwart i7-13700 Intel H610 5,2 GHz

Merk : MSI

Artikelcode: PRO DP21 13M-090BEU

Productnaam : PRO DP21 13M-090BEU

MSI PRO DP21 13M-090BEU. Type behuizing: 2,3L maat pc, Type product: Mini PC barebone. Chipset moederbord: Intel H610. Aantal geheugenslots: 2, Maximum intern geheugen: 64 GB. Ondersteunde types opslag-drives: HDD & SSD, Opslag schijf-interface: M.2, SATA III. Aantal Ethernet LAN (RJ-45)-poorten: 1. Wi-Fi-standaarden: Wi-Fi 6E (802.11ax), Bluetooth-versie: 5.3. Type koeling: Actief. Netvoeding: 120 W

Processor

Processor manufacturer	Intel
Processor family	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model	i7-13700
Processor cores	16
Processor threads	24
Processor boost frequency	5.2 GHz
Processor frequency	5.2 GHz
Performance cores	8
Efficient cores	8
Built-in processor *	✔
Processor lithography	10 nm
Performance-core boost frequency	5.1 GHz
Efficient-core boost frequency	4.1 GHz
Processor cache	30 MB
L2 cache	24 MB

Memory

Memory slots type *	SO-DIMM
Number of memory slots *	2
Maximum internal memory	64 GB
Supported memory clock speeds	2666,3200 MHz
Memory channels	Dual-channel

Storage

Supported storage drive types *	HDD & SSD
Storage drive sizes supported *	2.5,M.2
SSD form factor	M.2
Storage drive interface	M.2, Serial ATA III
NVMe	✔
Number of storage drives supported	3

Graphics

On-board graphics card *	✔
Graphics card family	Intel

Ports & interfaces

HDMI ports quantity *	1
HDMI version	2.0
DVI port	✘
DisplayPorts quantity	1
DisplayPort version	1.4
Microphone in	✔
Headphone outputs	1
Ethernet LAN (RJ-45) ports *	1
COM ports quantity	1
DC-in jack	✔

Design

Chassis type *	2.3L sized PC
Product colour *	Black
Cooling type *	Active
On/off switch	✔
VESA mounting	✔
Panel mounting interface	100 x 100 mm
Product type *	Mini PC barebone

Performance

Motherboard form factor	mini ITX
Motherboard chipset	Intel H610
Number of processors supported	1
Compatible processor series	Intel Core i7 13th Gen
Trusted Platform Module (TPM)	✔

Certificates

Certification	FCC(Class B), CB/CE, UL(CUL), BSMI

Software

Operating system installed	✘

Power

Power supply type *	External AC adapter

Graphics

On-board graphics card model	Intel® UHD Graphics
Number of displays supported	3

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 *	✔
Wi-Fi *	✔
LAN controller	Realtek RTL8111H
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
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

Power

Power supply	120 W
Number of power supply units	1

Operational conditions

Operating temperature (T-T)	0 - 35 °C
Storage temperature (T-T)	-20 - 60 °C
Operating relative humidity (H-H)	0 - 85%
Storage relative humidity (H-H)	0 - 90%

Weight & dimensions

Width	204 mm
Depth	208 mm
Height	54.8 mm
Weight	1.27 kg
Package width	275 mm
Package depth	382 mm
Package height	125 mm
Package weight	2.75 kg

Packaging content

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

Other features

Warranty period	2 year(s)

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