

Lenovo ThinkCentre M90a Gen 5 12SH(12SH0018UK)

Lenovo ThinkCentre M90a Gen 5 12SH - All-in-one with Full Function Monitor stand - Core i5 i5-14500 / up to 5 GHz - vPro Enterprise - RAM 16 GB - SSD 512 GB - TCG Opal Encryption 2, NVMe, Performance - DVD-Writer - UHD Graphics 770 - Gigabit Ethernet, IEEE 802.11ax (Wi-Fi 6E), Bluetooth 5.3 - Win 11 Pro - monitor: LED 23.8" 1920 x 1080 (Full HD) @ 60 Hz - keyboard: UK - black - Lenovo TopSeller - with 1 Year Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)



Main Specifications

Product Description	Lenovo ThinkCentre M90a Gen 5 - all-in-one Core i5 i5-14500 2.6 GHz - vPro Enterprise - 16 GB - SSD 512 GB - LED 23.8" - UK
Type	Personal computer - all-in-one
Bundled Services	1 Year Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)
Platform Technology	Intel vPro Enterprise
Localisation	Language: English / region: United Kingdom
Processor	Intel Core i5 (14th Gen) i5-14500 / 2.6 GHz (up to 5 GHz, (14-core)
Cache Memory	24 MB
Cache Per Processor	24 MB
RAM	16 GB (installed) / 64 GB (max) - DDR5 SDRAM
Hard Drive	SSD 512 GB - PCI Express 4.0 x4 - M.2 2280 - TCG Opal Encryption 2, NVMe Express (NVMe), Performance
Optical Storage	DVD-Writer
Card Reader	Yes
Monitor	23.8" - LED - 1920 x 1080 (Full HD) @ 60 Hz - 16:9
Graphics Controller	Intel UHD Graphics 770 Shared Video Memory (UMA)
Camera	Yes
Networking	1GbE, 802.11a, 802.11b/g/n, Wi-Fi 5, Wi-Fi 6E, Bluetooth 5.3
Keyboard	UK
Power	(50/60 Hz)
OS Provided	Windows 11 Pro
Colour	Black
Dimensions (WxDxH)	53.96 cm x 21.731 cm x 50.185 cm
Weight	8.13 kg
Manufacturer Selling Program	Lenovo TopSeller
Environmental Standards	TCO Certified Edge All-in-One PCs, TCO Certified All-in-One PCs 9, ENERGY STAR Qualified EPEAT Gold
Manufacturer Warranty	Base warranty - 3 years - on-site ¦ Extended warranty - 1 year - on-site - response time: next business day

Extended Specification

General

Platform Technology	Intel vPro Enterprise
Type	Personal computer
Bundled Services	1 Year Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)
Product Form Factor	All-in-one - with Full Function Monitor stand
Built-in Devices	Stereo speakers
Embedded Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip
Colour	Black
Localisation	Language: English / region: United Kingdom

Expansion / Connectivity

Bays	1 (total) / 0 (free) x external 5.25" Slim Line
Slots	2 M.2 Card (for SSD) 1 M.2 Card (for WLAN)
Interfaces	1 x USB-C 3.2 Gen 2 (1 rear) (data transfer, 15W charging) 3 x USB 3.2 Gen 1 (3 rear) 1 x HDMI input/output combo (1 rear) (TMDS compatible) 1 x DisplayPort 1.4 (1 rear) 1 x LAN - RJ-45 (1 rear) 3 x USB 3.2 Gen 2 (3 side) 1 x headphones/microphone (1 side) 1 x serial (1 rear)

Manufacturer Warranty

Service & Support	Base warranty - 3 years - on-site Extended warranty - 1 year - on-site - response time: next business day
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RAM

Installed Size	16 GB (installed) / 64 GB (max)
Technology	DDR5 SDRAM
Rated Memory Speed	4800 MHz
Form Factor	SO-DIMM 262-pin
Slots	2 (Total) / 1 (empty)
Features	Dual channel memory architecture
Configuration Features	1 x 16 GB

Networking

Wireless LAN Supported	Yes
Wireless NIC	Intel Wi-Fi 6E AX 211
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11b, IEEE 802.11a, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax (Wi-Fi 6E), Bluetooth 5.3
Features	Dual stream (2x2)

Miscellaneous

Included Accessories	VESA mounting kit
Theft/Intrusion Protection	Security lock slot (cable lock sold separately), chassis intrusion switch
Security Slot Type	Kensington security slot
VESA Mounting Interface	VESA
Compliant Standards	RoHS, FIPS 140-2, GREENGUARD, Energy-Related Products (ErP) Lot 3, TUV Rheinland Flicker Free Certification, TCG Certified, UL Anti-dust, Eyesafe Certified 2.0
Manufacturer Selling Program	Lenovo TopSeller

Power

Device Type	Power supply
Voltage Required	AC 100-240 V (50/60 Hz)
Power Provided	180 Watt
Efficiency	90%

Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	35 °C
Humidity Range Operating	20 - 80%

Cache Memory

Installed Size	24 MB
Cache Per Processor	24 MB

Optical Storage

Type	DVD±RW DVD-Writer - SATA
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Operating System / Software

OS Provided	Windows 11 Pro English
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Monitor

Monitor Type	LED - IPS
Diagonal Size	23.8"
Native Resolution	1920 x 1080 (Full HD)
V-Sync Rate at Max Res.	60 Hz
Widescreen Display	Yes
Image Aspect Ratio	16:9
Colour Gamut	99% sRGB
Image Brightness	250 cd/m²
Monitor Features	Anti-glare, Flicker Free technology, Low Blue Light technology, Eyesafe technology

Graphics Controller

Graphics Processor	Intel UHD Graphics 770 Shared Video Memory (UMA)
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Audio Output

Compliant Standards	High Definition Audio
Speakers Included	2 x right / left channel

Hard Drive

Type	SSD - M.2 2280
Capacity	1 x 512 GB
Interface Type	PCI Express 4.0 x4
Features	TCG Opal Encryption 2, NVMe Express (NVMe), Performance

Input Device

Type	Mouse, keyboard
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Audio Input

Type	Dual array microphone
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Camera

Camera	Yes
Resolution (MP)	5 Megapixel
Features	Hybrid IR camera, ThinkShutter camera cover

Dimensions & Weight

Width	53.96 cm
Depth	21.731 cm
Height	50.185 cm
Weight	8.13 kg

Keyboard

Keyboard Name	Lenovo Traditional Keyboard
Interface	USB
Localization & Layout	UK

Card Reader

Type	Card reader
Supported Flash Memory Cards	SD Memory Card

Mouse

Mouse Name	Lenovo Calliope Mouse
Interface	USB

Processor / Chipset

CPU	Intel Core i5 (14th Gen) i5-14500
Clock Speed	2.6 GHz (P-core) / 1.9 GHz (E-core)
Max Turbo Speed	5 GHz (P-core) / 3.7 GHz (E-core)
Number of Cores	14-core
CPU Qty	1
Max CPU Qty	1
Chipset Type	Intel Q670

Sustainability Information

TCO Certified	TCO Certified Edge All-in-One PCs, TCO Certified All-in-One PCs 9
EPEAT Compliant	EPEAT Gold
ENERGY STAR Certified	Yes
ENERGY STAR Version	8.0

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