

Product Spec. :

Display Website spec.

Model	
Part No	9S7-16R821-812
SKU Number	
Website Name	Thin GF63 12UCX
Brand	MSI
Platform	INTEL
Series Name	Gaming
Segment Name	GF
Segment Name2	ThinGF63
Segment Name3	ThinGF63 12UCX
Model	16R8
MKT Name	Thin GF63 12UCX
Entity MKT Name	
MKT Spec	Thin GF63 12UCX-812XCZ
System/Barebone	System
Chassis Color	
Color	ID2(BB)/Black-Black-Black-Black
Color_Website	Black
Chassis Material	
A Side	Metal
B Side	Plastic
C Side	Metal
D Side	Plastic
Display	
Screen Size	15.6
Resolution	IPS-Level FHD
Pixel	1920x1080
LCD Features	ANTI-GLARE
Screen Touch	Non-touch
Frame Rate	144Hz
Response Time	Tr+Tf 25ms
Color Range	45%
Screen Size_Website	15.6"
Pixel_Website	FHD(1920x1080)
Frame Rate_Website	144Hz Refresh Rate
Color Range_Website	N/A
Display Type_Website	IPS-Level
HDR Value	N/A
Touch Feature_Website	NA
CPU	
CPU Type	8 CORE
CPU Core Name	ALDER LAKE-P
CPU Socket	BGA-1744pin
CPU Number	i5-12450H
CPU Clock	2GHz
CPU Cores	8
CPU Core Name_Website	12th Gen Intel® Core™
CPU Number_Website	i5-12450H processor
CPU Specification_Website	8 cores (4 P-cores + 4 E-cores), Max Turbo Frequency 4.4 GHz
Chipset	

Chipsets	N/A
Chipset SoC_Website	Integrated SoC
Discrete Graphics	
GPU1 Vendor	NVIDIA
GPU1 MKT Name	GeForce RTX 2050
GPU1 Number	RTX 2050
GPU1 MKT Name_Website	NVIDIA® GeForce RTX™ 2050 Laptop GPU
GPU1 Boost Clock_Website	Up to 1170MHz Boost Clock 45W Maximum Graphics Power with Dynamic Boost. *May vary by scenario
GPU1 Remark_Website	N/A
CPU and GPU Combined Power	
Combined Power_Website	N/A
OverBoost Ultra Remark_Website	N/A
Scenario Remark_Website	N/A
Cooling	
Thermal	Cooler Boost
Fan	1
Pipe	3
Video Memory	
GPU1 VRAM Size	4GB
GPU1 VRAM Type	GDDR6
Integrated Graphics	
GPU1 Graphics_Website	Intel® UHD Graphics
Memory	
Memory Size	8GB*1
Memory Type	DDR4-3200
Memory Speed	1600(3200)MHz
Memory Remark_Website	N/A
Memory Slot and Max Capacity	
Memory Slot	2 Slots
Memory Max Capacity_Website	Max 64GB
Storage	
SSD Interface	PCIe GEN4x4 w/o DRAM NVMe
SSD Form Factor	M.2-2280 M-KEY
SSD Size	512GB*1
HDD1 Interface	N/A
HDD1 Form Factor	N/A
HDD size	N/A
HDD1 RPM	N/A
ODD Type	N/A
Multi Bay	N/A
SSD Gen_Website	NVMe SSD PCIe Gen4
2.5" HDD_Website	N/A
SSD Remark	N/A
Storage Slot	
SSD (NVMe PCIe Gen)_Website	1x M.2 SSD slot (NVMe PCIe Gen4)
HDD_Website	1x 2.5" SATA HDD
Communications	
Accessory Lan_Website	Gb LAN
LAN	
LAN_Website	Gigabit Ethernet
LAN	REALTEK/RTL8111H-VB-CG

Wi-Fi/ Bluetooth	
WLAN/BT_Website	Intel® Wi-Fi 6 AX201, Bluetooth v5.2
WLAN Version	Wi-Fi 6+BT
WLAN/BT	INTEL/AX201.NGWG.NVW
I/O Ports	
Audio Line In	N/A
Audio Line Out	N/A
Digital out SPDIF	N/A
RJ45	1x
USB Ports	
Type-C (USB3.1 Gen2 / DP / Thunderbolt™3 optional)	NA
Type-C (USB3.2 Gen2 / DP / Thunderbolt™3)	NA
Type-C (USB3.2 Gen1 / DP / Thunderbolt™3)	NA
Type-C (USB3.2 Gen2 / DP / Thunderbolt™3) with PD charging	NA
Type-C (USB3.2 Gen2 / DP)	NA
Type-C (USB / DP / Thunderbolt™ 4) with PD charging	NA
Type-C (USB / DP / Thunderbolt™ 4) with PD3.1 charging	N/A
Type-C (USB / DP / Thunderbolt™ 4)	NA
Type-C (USB / DP / Thunderbolt™) with PD charging	NA
Type-C (USB3.2 Gen2 / DP) with PD charging	NA
Type-C (USB3.2 Gen2 / DP) with PD3.1 charging	N/A
Type-C (USB3.1 Gen1 / DP)	NA
Type-C (USB3.2 Gen1 / DP)	1x
Type-C USB3.1 Gen2	NA
Type-C USB3.2 Gen2	NA
Type-C USB3.2 Gen2 with PD charging	NA
Type-C USB3.1 Gen1	NA
Type-C USB3.2 Gen1	NA
Type-A USB3.1 Gen1	NA
Type-A USB3.2 Gen1	3x
Type-A USB3.1 Gen1/ QC3.0	NA
Type-A USB3.2 Gen1/ QC3.0	NA
Type-A USB3.1 Gen2	NA
Type-A USB3.2 Gen2	NA
Type-C USB3.2 Gen2x2	NA
Type-A USB3.1	NA
Type-C USB3.0	N/A
Type-A USB3.0	NA
Type-A USB2.0	NA
USB3.2 Gen 2 Type-C(connect to computer)	NA
Card Reader	
CardReader	NA
Video Ports	
VGA Out	NA
HDMI™	1x HDMI™ (4K @ 30Hz)
DisplayPort	NA
Mini Display Port	NA
Keyboard	

Keyboard Types_Website	Single Backlit Keyboard (Red)
Keyboard Keys	84KEYS
Keyboard Backlit	N/A
Keyboard Numeric	N/A
Keyboard Color	BLACK
Keyboard Language	CS Wleft
WebCam	
WebCam	HD type (30fps@720p)
Audio Port	
Audio Jack_Website	1x Mic-in, 1x Headphone-out
Audio	
Audio Speaker	2x 2W
Audio Woofer	N/A
Audio Solution_Website	Nahimic 3 Audio Enhancer, Hi-Res Audio Ready
AC Adapter	
Adaptor Output	120W adapter
Adaptor	120W
Adaptor Input	90-264Vin
Adaptor Unit Weight (g)	430
Power Cord Unit Weight (g)	126
Battery	
Battery Type	3CELLS/3S1P
Battery Cell_Website	3-Cell
Whrs	52.4
Battery Unit Weight (g)	210
Operating Systems	
OS	N/A
OS Type	Free DOS
OS_Website	Free Dos
Microsoft Office	
OS-Office_Website	N/A
Dimension (WXDXH)	
Dimension	359 x 254 x 21.7 mm
Dimension(Inches)_Website	14.13" x 10." x 0.85"
Weight (W/ Battery)	
Weight	1.86 kg
Weight(lbs)_Website	4.1 lbs
Weight (Docking)	N/A
Weight (lbs Docking)_Website	N/A
Security	
Security Type_Website	Kensington Lock
Certification	
Certification Type_Website	NA
Sensor	
Fingerprint_Website	N/A
Ambient Light Sensor_Website	N/A
Gyroscope_Website	N/A
Accelerometer_Website	N/A
Magnetometer_Website	N/A
Warranty	
Warranty	24M
Warranty_Website	N/A

Accessory	
Accessory_Website	
Extra Bag	N/A
Extra Mouse	N/A
Remark	
Remark 1_Website	
Remark 2_Website	
Remark 3_Website	
Remark 4_Website	
Remark 5_Website	
Software	
Software	Nvidia GeForce Experience, Nahimic 3, Gaming Mode, MSI App Player, Game Highlights, MSI Companion, Crosshair, Battery Master, MSI Center, Smart Auto
Model Info	
Series Name	Gaming
Segment Name	GF
Segment Name2	ThinGF63
Segment Name3	ThinGF63 12UCX
Barcode Info	
EAN	4711377124812
JAN	
UPC	
UCC14	

Created By : ITS_MTL

Created Date : 6/30/2023 7:02:04 AM

Updated By :

Updated Date : 6/30/2023 7:02:04 AM

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