Model	
Part No	9S7-16R831-28E3
SKU Number	
Website Name	Thin 15 B12VE
Brand	MSI
Platform	INTEL
Series Name	Gaming
Segment Name	Thin
Segment Name2	Thin15B
Segment Name3	Thin15 B12VE
Model	16R8
MKT Name	Thin 15 B12VE
Entity MKT Name	
MKT Spec	Thin 15 B12VE-2863XBG
System/Barebone	System
Chassis Color	
Color	(D3)(G0)/Cosmos_Gray-Cosmos_Gray-Cosmos_Gray-Cosmos_Gray
Color_Website	Cosmos Gray
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
Brightness	N/A
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 4050
GPU1 Number	RTX 4050
GPU1 MKT Name_Website	NVIDIA® GeForce RTX™ 4050 Laptop GPU powers advanced AI with 194 AI TOPS
GPU1 Boost Clock_Website	Up to 1605MHz 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
Fan Technology	N/A
Pipe	3
Vapor Chamber	N/A
Video Memory	
GPU1 VRAM Size	6GB
GPU1 VRAM Type	GDDR6
Integrated Graphics	
GPU1 Graphics_Website	Intel® UHD Graphics
Memory	
Memory Size	8GB*2
Memory Module	1600/3200 MHz
Memory/Slot Max Speed	DDR4-3200
Memory Form	N/A
Memory Remark_Website	N/A
Memory Slot and Max Capacity	
Memory Max Speed	
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
Lan	
LAN_Website	Gigabit Ethernet
LAN	REALTEK/RTL8111H/JB-CG
RJ45	1x
Wi-Fi/ Bluetooth	
WLAN/BT_Website	Intel® Wi-Fi 6E AX211, Bluetooth v5.3
WLAN Version	Wi-Fi 6E+BT
WLAN/BT	INTEL/AX211.NGWG.NV
IO Ports	
Audio Line In	N/A
Audio Line Out	N/A
Digital out SPDIF	N/A
USB Ports	
Type-C (USB3.1 Gen2 / DP / Thunderbolt™3)	NA
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 / DisplayPort™)	NA
Thunderbolt™ 4 (DisplayPort™/ Power Delivery 3.0)	NA
Thunderbolt™ 4 (DisplayPort™/ Power Delivery 3.1)	N/A
Thunderbolt™ 4 (DisplayPort™)	NA
Thunderbolt™ 5 (DisplayPort™/ Power Delivery 3.1)	
Thunderbolt™ (DisplayPort™/ Power Delivery 3.0)	NA
Type-C (USB4® / DisplayPort™/ Power Delivery 3.0/ Thunderbolt™ 4 compatible)	N/A
Type-C (USB3.2 Gen2 / DisplayPort™/ Power Delivery 3.0)	NA
Type-C (USB3.2 Gen2 / DisplayPort™/ Power Delivery 3.1)	N/A
Type-C (USB3.1 Gen1 / DisplayPort™)	NA
Type-C (USB3.2 Gen1 / DisplayPort™)	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
Smart Card Reader	N/A
Video Ports	
VGA Out	NA
HDMI™	1x HDMI™ (4K @ 30Hz)
DisplayPort	NA
Mini Display Port	NA
Keyboard	
Keyboard Types_Website	Single Backlit Keyboard (Blue)
Keyboard Keys	84KEYS
Keyboard Backlit	Y
Keyboard Numeric	No
Keyboard Color	BLACK
Keyboard Language	RG Wafl
Touchpad	
Touchpad	NA
WebCam	
WebCam	HD type (30fps@720p)
Webcam Feature	N/A
Audio Port	
Audio Jack_Website	1x Micin, 1x Headphone-out
Audio	
Audio Speaker	2x 2W
Audio Woofer	N/A
Audio Mic	N/A
Audio Solution_Website	Hi-Res Audio Ready, DTS Audio Processing
AC Adapter	
Adapter Output	120W adapter
Adaptor	120W
Adaptor Input	90-264Vac
Adaptor Unit Weight (g)	430
Power Cord Unit Weight (g)	126
Battery	
Battery Type	3CELLS/3S1P
Battery Cell_Website	3-Cell
Wh\n	52.4 Wh\n
Mah	4600 Mah
Battery Unit Weight (g)	221
Operating Systems	
OS	N/A
OS Type	Free DOS
OS_Website	Free Dos
Copilot+ PC Certified	N/A
Microsoft Office	
OS Office_Website	N/A
Dimension (WXD)(H)	
Dimension	359 x 254 x 23.7 mm
Dimension(Inches)_Website	14.13" x 10." x 0.95"
Weight (W/ Battery)	
Weight	1.86 kg
Weight(lbs)_Website	4.1 lbs
Security	
Security Type_Website	Firmware Trusted Platform Module(TPM) 2.0, Kensington Lock
Certification	
Certification Type_Website	NA
Sustainability	
EPEAT_Website	N/A
Sensor	
Fingerprint_Website	N/A
Fingerprint (Optional)	N/A
Ambient Light Sensor_Website	N/A
Gyroscope_Website	N/A
Accelerometer_Website	N/A
Magnetometer_Website	N/A
Proximity Sensor	N/A
NFC (Optional)	N/A
Warranty	
Warranty	24M
Warranty_Website	2 years limited warranty
Xbox Game Pass	
Xbox Game Pass	One month of PC Game Pass
Xbox Game Pass Remark	*Spec and bundle offer may vary by model and by country. Please refer to the final specification of the product purchased for Xbox Game Pass pre-installed details.
Accessory	
Accessory_Website	
Extra Bag	N/A
Extra Mouse	N/A
Remark	
IO Ports Remark	N/A
Remark 1_Website	
Remark 2_Website	
Remark 3_Website	
Remark 4_Website	
Remark 5_Website	
Software	
Software	Nvidia GeForce Experience, Gaming Mode, MSI App Player, Game Highlights, MSI Companion, Crosshair, Battery Master, MSI Center, DTS Audio Processing, Smart Auto
Model Info	
Segment Name2	Thin15B
Segment Name	Thin
Series Name	Gaming
Segment Name3	Thin15 B12VE
Extra Info	
EOL Date	
Barcode Info	
UCC14	
UPC	
JAN	
EAN	4711377294492