

## MUW63ZE/A

16-inch MacBook Pro: Apple M3 Max chip with 16core CPU and 40core GPU, 1TB SSD - Space Black,Model A2991

Brand: APPLE

EAN: 195949185441

Warranty: 12 month(s)

## **Technical Specification**

Processor	
CPU	Apple M3 Max
CPU Core Quantity	16
Neural Engine Core Quantity	16
Chipset	System on Chip (SoC)
Memory	
Memory Capacity	48 GB
Memory Bandwidth	400 GB/s
Storage	
Storage Capacity	1 TB SSD
Display	
Diagonal Length	16.2"
Display Type	LCD
Display Color	Color
Maximum Resolution	3456x2234
Display Features	Wide Color Gamut (P3) True Tone technology 1600 Nits Peak Brightness 1000 nits Brightness Liquid Retina XDR Display 1 Billion Colors 1.000.000:1 contrast ratio SDR brightness: 600 nits ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz

Networking Specifications	
Wi-Fi	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n Wi-Fi 4 IEEE 802.11ac Wi-Fi 5 IEEE 802.11ax Wi-Fi 6E
Bluetooth	Bluetooth 5.3
Interface Provided	
Thunderbolt/USB 4 Headphones HDMI	3 (USB Type-C) 1 (3.5-mm minijack) 1 (HDMI (Type A))
System	
System Type Keyboard Features Keyboard Localization Touch Bar Built-in Devices	Notebook Backlit Keyboard Ambient Light Sensor Force Touch Trackpad Magic Keyboard Force Click Accelerators Pressure-Sensitive Drawing Multi-Touch Gestures International English without Touch Bar Touch ID Voice Control VoiceOver Zoom Increase Contrast Reduce Motion Siri and Dictation Switch Control Closed Captions Text to Speech
Flash Types Supported Audio/Video Features	SDXC Highfidelity sixspeaker system with forcecancelling woofers Wide stereo sound Studioquality three-mic array with high signal-to-noise ratio and directional beamforming Support Thunderbolt 4 digital video output Spatial audio with dynamic head tracking when using AirPods (3rd generation), AirPods Pro, and AirPods Max 3.5mm headphone jack with advanced support for

	high-impedance headphones Supported formats include HEVC, H.264, and ProRes HDR with Dolby Vision, HDR10, and HLG Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos Support for Spatial Audio when playing music or video with Dolby Atmos on built-in speakers HDMI digital video output Simultaneously supports full native resolution on the built-in display at 1 billion colors
	Support native DisplayPort output over USBC Hardware-accelerated H.264, HEVC, ProRes, and ProRes RAW Video decode engine Two video encode engines Two ProRes encode and decode engines HDMI port supports multi-channel audio output Up to four external displays Up to three displays: Two displays with up to 6K resolution at 60Hz over Thunderbolt and one display with up to 4K resolution at 60Hz over HDMI One display with up to 8K resolution at 60Hz or 4K resolution at 240Hz over HDMI Support for one display with up to 8K resolution at 60Hz or 4K resolution at 240Hz Hardware-accelerated ray tracing AV1 decode Advanced image signal processor with computational video Up to three external displays with 6K resolution at 60Hz over Thunderbolt and one external display with up to 4K resolution at 144Hz over HDMI
Included Accessories	MacBook Pro USB-C Power Adapter
Cable Included	USB-C to MagSafe 3 Cable (2 m)
External Color	Space Black
Features that Reduce Environmental Impact	Meets ENERGY STAR Requirements Mercury-Free PVC free Arsenic-Free Display Glass BFR Free Beryllium-free 100% recycled aluminum enclosure 35% or more recycled plastic in multiple components 100% of virgin wood fiber comes from responsibly managed forests Apple's Zero Waste Program helps suppliers eliminate waste sent to landfill 100% recycled rare earth elements in all magnets 100% recycled tin in multiple printed circuit boards 100% recycled gold in the plating of multiple printed circuit boards 36% recycled or renewable content in the device 100% recycled copper in the finstack of the heat sink 100% fiber-based packaging 41% emissions reduction against baseline

Platform Compability Installed Operating System Power	Mac Apple macOS Sonoma
Power Device Location Input Voltage	External AC 100-240 V
Input Frequency Included Power Adapter Output Power Power Port Connector Type	50/60 Hz 140 W USB-C
Battery	
Battery Technology Battery Installed Quantity Maximum Battery Supported Quantity Battery Current Capacity	Lithium Polymer 1 1 100 WHr
Dimensions&Weight Device	
Depth (mm) Height (mm) Width (mm) Nominal Weight	248.1 mm 16.8 mm 355.7 mm 2.16 kg
Environment	
Maximum Operating Ambient Temperature Minimum Operating Ambient Temperature Maximum Non-Operating Ambient Temperature Minimum Non-Operating Ambient Temperature Max. Relative Humidity Non-Condensing Min. Relative Humidity Non-Condensing Max. Altitude Operating Max. Altitude Storage Max. Altitude Shipping	35 °C 10 °C 45 °C -25 °C 90 % 0 % 10000 ft 15000 ft
Warranty	
Warranty Products Returnable	Yes

Warranty Term (month) Warranty Validation Criteria	12 month(s) Serial Number
Logistic	
Entity Code	All
Pack Weight Brutto (kg)	3.48 kg
Pieces in pack	1
Box Weight Brutto (kg)	3.48 kg
Packs in Box	1
Package Type	Retail
EAN Code	195949185441

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