

Technical Specification Requirement

Model Name: Apple MacBook Pro 14” with M2 Max Chip

Component Specifications	Complied/Not Complied	Ref.Cat.Pg.No
Chip Apple M2 Max chip 12-core CPU with 8 performance cores and 4 efficiency cores 30-core GPU 16-core Neural Engine 400GB/s memory bandwidth Media engine Hardware-accelerated H.264, HEVC, ProRes and ProRes RAW Video decode engine Two video encode engines Two ProRes encode and decode engines		
Display Liquid Retina XDR display 35.97 cm / 14.2-inch (diagonal) Liquid Retina XDR display; 3024x1964 native resolution at 254 pixels per inch XDR (Extreme Dynamic Range) 10,00,000:1 contrast ratio XDR brightness: 1,000 nits sustained full screen, 1,600 nits peak (HDR content only) SDR brightness: 500 nits Colour 1 billion colours Wide colour (P3) True Tone technology Refresh rates ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz		
Memory 32GB unified memory		
Battery and Power Up to 18 hours Apple TV app movie playback Up to 12 hours wireless web 70-watt-hour lithium-polymer battery 96W USB-C Power Adapter (included with M2 Pro with 12-core CPU or M2 Max, configurable with M2 Pro with 10-core CPU) USB-C to MagSafe 3 Cable Fast-charge capable with 96W USB-C Power Adapter		

Storage	2TB SSD		
Charging and Expansion	SDXC card slot		
	HDMI port		
	3.5 mm headphone jack		
	MagSafe 3 port		
	Three Thunderbolt 4 (USB-C) ports with support for:		
	Charging		
	DisplayPort		
	Thunderbolt 4 (up to 40 Gbps)		
	USB 4 (up to 40 Gbps)		
Display Support	M2 Max Simultaneously supports full native resolution on the built-in display at 1 billion colours and:		
	Up to four external displays: 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		
	Up to three external displays: Up to two external displays with 6K resolution at 60Hz over Thunderbolt and one external display with up to 8K resolution at 60Hz or one external display with 4K resolution at 240Hz over HDMI		
	Thunderbolt 4 digital video output Support for native DisplayPort output over USB-C		
	HDMI digital video output Support for one display with up to 8K resolution at 60Hz or 4K resolution at 240Hz		
Video Playback	Supported formats include HEVC, H.264 and ProRes HDR with Dolby Vision, HDR10 and HLG		
Audio Playback	Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus and Dolby Atmos		
Keyboard and Trackpad	Backlit Magic Keyboard with: 78 (US) or 79 (ISO) keys including 12 full-height function keys and 4 arrow keys in an inverted-T arrangement		
	Touch ID		
	Ambient light sensor		
	Force Touch trackpad for precise cursor control and pressure-sensing capabilities; enables Force clicks, accelerators, pressure-sensitive drawing and Multi-Touch gestures		
Wireless	Wi-Fi		

	Wi-Fi 6E (802.11ax)		
	Bluetooth Bluetooth 5.3		
Camera	1080p FaceTime HD camera Advanced image signal processor with computational video		
Audio	High-fidelity six-speaker sound system with force-cancelling woofers Wide stereo sound Support for Spatial Audio when playing music or video with Dolby Atmos on built-in speakers Spatial Audio with dynamic head tracking when using AirPods (3rd generation), AirPods Pro and AirPods Max Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming		
	3.5 mm headphone jack with advanced support for high-impedance headphones		
	HDMI port supports multi-channel audio output		
Operating Requirements	Line voltage: 100V to 240V AC		
	Frequency: 50Hz to 60Hz		
	Operating temperature: 10° to 35° C (50° to 95° F)		
	Storage temperature: -25° to 45° C (-13° to 113° F)		
	Relative humidity: 0% to 90% non-condensing		
	Operating altitude: tested up to 3,000 metres		
	Maximum storage altitude: 4,500 metres Maximum shipping altitude: 10,500 metres		
Operating System	macOS macOS is the most advanced desktop operating system in the world. macOS Ventura makes the things you do most on Mac even better, so you can work smarter, play harder and go further.		
Accessibility	Voice Control		
	VoiceOver		
	Zoom		
	Increase Contrast		
	Reduce Motion		
	Siri and Dictation		
	Switch Control		

Built-in Apps	App Store		
	Books		
	Calendar		
	Contacts		
	FaceTime		
	Find My		
	GarageBand		
	Home		
	iMovie		
	Keynote		
	Mail		
	Maps		
	Messages		
	Music		
	Notes		
	Numbers		
	Pages		
	Photo Booth		
	Photos		
	Podcasts		
	Preview		
	QuickTime Player		
	Reminders		
	Safari		
	Shortcuts		
	Siri		
Stocks			
Time Machine			
TV			
Voice Memos			
Attachement required	96W USB-C Power Adapter (M2 Pro with 12-core CPU or M2 Max) USB-C to MagSafe 3 Cable (2 m)		
Warranty and Service	3 years		