

دەتەرگەم سەنج (ANNEX 1)

	<u>DESCRIPTION / MINIMUM SPECIFICATIONS</u>	<u>QTY</u>		
	<p><u>Macbook PRO</u></p> <table border="1"> <tr> <td>Display</td> <td> <p>Liquid Retina XDR display 16.2-inch (diagonal) Liquid Retina XDR display;¹ 3456-by-2234 native resolution at 254 pixels per inch</p> <p>XDR (Extreme Dynamic Range) 1,000,000:1 contrast ratio XDR brightness: 1000 nits sustained full-screen, 1600 nits peak² (HDR content only) SDR brightness: 600 nits</p> <p>Color 1 billion colors Wide color (P3) True Tone technology</p> <p>Refresh rates ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz</p> </td> </tr> </table>	Display	<p>Liquid Retina XDR display 16.2-inch (diagonal) Liquid Retina XDR display;¹ 3456-by-2234 native resolution at 254 pixels per inch</p> <p>XDR (Extreme Dynamic Range) 1,000,000:1 contrast ratio XDR brightness: 1000 nits sustained full-screen, 1600 nits peak² (HDR content only) SDR brightness: 600 nits</p> <p>Color 1 billion colors Wide color (P3) True Tone technology</p> <p>Refresh rates ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz</p>	
Display	<p>Liquid Retina XDR display 16.2-inch (diagonal) Liquid Retina XDR display;¹ 3456-by-2234 native resolution at 254 pixels per inch</p> <p>XDR (Extreme Dynamic Range) 1,000,000:1 contrast ratio XDR brightness: 1000 nits sustained full-screen, 1600 nits peak² (HDR content only) SDR brightness: 600 nits</p> <p>Color 1 billion colors Wide color (P3) True Tone technology</p> <p>Refresh rates ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz</p>			
Memory	36GB unified memory or above			
Battery and Power	Up to 22 hours Apple TV app movie playback Up to 15 hours wireless web 100-watt-hour lithium-polymer battery ³ 140W USB-C Power Adapter USB-C to MagSafe 3 Cable Fast-charge capable with included 140W USB-C Power Adapter			
Processor	M3 Pro with 12-core CPU or above			
GPU	18 Core GPU			
Storage	512GB SSD or above			

Charging and Expansion	SDXC card slot HDMI port 3.5 mm headphone jack MagSafe 3 port <u>Three Thunderbolt 4 (USB-C) ports with support for:</u> Charging DisplayPort Thunderbolt 4 (up to 40Gb/s) USB 4 (up to 40Gb/s)	
Display Support	<u>Simultaneously supports full native resolution on the built-in display at 1 billion colors and:</u> Up to two external displays with up to 6K resolution at 60Hz at over a billion colors (M3 Pro) or up to three external displays with up to 6K resolution and one external display with up to 4K resolution at 60Hz at over a billion colors (M3 Max). <u>Thunderbolt 4 digital video output</u> Native DisplayPort output over USB-C <u>HDMI digital video output</u> Support for one display with up to 4K resolution at 60Hz	
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	<u>Backlit Magic Keyboard with:</u> 78 (U.S.) 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	<u>Wi-Fi</u> 802.11ax Wi-Fi 6 wireless networking IEEE 802.11a/b/g/n/ac compatible <u>Bluetooth</u> Bluetooth 5.0 wireless technology	
Camera	1080p FaceTime HD camera Advanced image signal processor with computational video	

