

**Apple MacBook Pro 16.2" M1 Pro, 10-Core CPU, 16-Core GPU, 16GB RAM, 512GB SSD (Late 2021) Silver /MK1E3/**

<b>Чип</b>	<b>Apple M1 Pro chip</b> 10-core CPU with 8 performance cores and 2 efficiency cores 16-core GPU 16-core Neural Engine 200GB/s memory bandwidth
<b>Дэлгэц</b>	<b>Media engine</b> Hardware-accelerated H.264, HEVC, ProRes, and ProRes RAW Video decode engine Video encode engine ProRes encode and decode engine <b>Liquid Retina XDR display</b> 16.2-inch (diagonal) Liquid Retina XDR display;1 3024-by-1964 native resolution at 254 pixels per inch <b>XDR (Extreme Dynamic Range)</b> 1,000,000:1 contrast ratio XDR brightness: 1000 nits sustained full-screen, 1600 nits peak2 (HDR content only) SDR brightness: 500 nits <b>Color</b> 1 billion colors Wide color (P3) True Tone technology <b>Refresh rates</b> ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz Up to 17 hours Apple TV app movie playback Up to 11 hours wireless web 70-watt-hour lithium-polymer battery3
<b>Тэжээл Батарей</b>	67W USB-C Power Adapter (included with M1 Pro with 8-core CPU) 96W USB-C Power Adapter (included with M1 Pro with 10-core CPU or M1 Max, configurable with M1 Pro with 8-core CPU) USB-C to MagSafe 3 Cable Fast-charge capable with 96W USB-C Power Adapter
<b>Холболт</b>	<b>SDXC card slot</b> <b>HDMI port</b> <b>3.5 mm headphone jack</b> <b>MagSafe 3 port</b> <b>Three Thunderbolt 4 (USB-C) ports with support for:</b> Charging DisplayPort Thunderbolt 4 (up to 40Gb/s) USB 4 (up to 40Gb/s)
<b>Шуурхай санах ой</b>	16GB unified memory
<b>Багтаамж</b>	512GB SSD

<b>Keyboard and Trackpad</b>	78 (U.S.) or 79 (ISO) keys including 12 full-height function keys and 4 arrow keys in an inverted-T arrangement
	Touch ID
<b>Утасгүй холболт</b>	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
<b>Камер</b>	<b>Wi-Fi</b>
	802.11ax Wi-Fi 6 wireless networking
<b>Аудио</b>	IEEE 802.11a/b/g/n/ac compatible
	<b>Bluetooth</b>
<b>Дэмжих дэлгэц</b>	Bluetooth 5.0 wireless technology
	1080p FaceTime HD camera
<b>Бичлэг тоглуулах</b>	Advanced image signal processor with computational video
	High-fidelity six-speaker sound system with force-cancelling woofers
<b>Аудио тоглуулах</b>	Wide stereo sound
	Support for spatial audio when playing music or video with Dolby Atmos on built-in speakers
<b>Хэмжээ</b>	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
<b>Дэмжих дэлгэц</b>	3.5 mm headphone jack with advanced support for high-impedance headphones
	<b>Simultaneously supports full native resolution on the built-in display at 1 billion colors and:</b>
<b>Бичлэг тоглуулах</b>	Up to two external displays with up to 6K resolution at 60Hz at over a billion colors (M1 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 (M1 Max)
<b>Аудио тоглуулах</b>	<b>Thunderbolt 4 digital video output</b>
	Native DisplayPort output over USB-C
<b>Хэмжээ</b>	VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters (sold separately)
	<b>HDMI digital video output</b>
<b>Дэмжих дэлгэц</b>	Support for one display with up to 4K resolution at 60Hz
	DVI output using HDMI to DVI Adapter (sold separately)
<b>Бичлэг тоглуулах</b>	Supported formats include HEVC, H.264, and ProRes
	HDR with Dolby Vision, HDR10, and HLG
<b>Аудио тоглуулах</b>	Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos
	Line voltage: 100V to 240V AC
<b>Хэмжээ</b>	Frequency: 50Hz to 60Hz
	Operating temperature: 50° to 95° F (10° to 35° C)
<b>Дэмжих дэлгэц</b>	Storage temperature: -13° to 113° F (-25° to 45° C)
	Relative humidity: 0% to 90% noncondensing
<b>Бичлэг тоглуулах</b>	Operating altitude: tested up to 10,000 feet
	Maximum storage altitude: 15,000 feet
<b>Аудио тоглуулах</b>	Maximum shipping altitude: 35,000 feet
	Height 0.61 inch (1.55 cm)
<b>Хэмжээ</b>	Width: 12.31 inches (31.26 cm)
	Depth: 8.71 inches (22.12 cm)
<b>Дэмжих дэлгэц</b>	Weight: 3.5 pounds (1.6 kg)

**Үйлдлийн  
систем**

**MacOS**

macOS is the most advanced desktop operating system in the world. macOS Monterey introduces powerful new features to help you connect, share, and create like never before.

**Хайрцаг дотор**

16.2-inch MacBook Pro

67W USB-C Power Adapter (M1 Pro with 8-core CPU) or 96W USB-C Power Adapter (M1 Pro with 10-core CPU or M1 Max)

USB-C to MagSafe 3 Cable (2 m)