



Apple Watch Series 12 GPS 46mm Dark Bronze Aluminium Case with Dark Bronze Milanese Loop - M/L

Brand : Apple **Product family:** Watch **Product code:** MKD84MP/A

Product name : Apple Watch
Series 12 GPS 46mm Dark
Bronze Aluminium Case with
Dark Bronze Milanese Loop - M/L

- All-new Health Sensing System delivers the most accurate heart rate sensing in a wearable
 - Should you rest or put yourself to the test? Now a personal readiness score lets you know
 - More frequent heart rate variability, or HRV, readings help provide insights on stress and recovery
 - A new optical heart rate sensor enables high-frequency heart rate tracking every five seconds, all day long, so you'll never miss a beat
 - In the redesigned Health app, learn which habits are influencing your Health Age and how to improve them
 - Make every day more effortless with Siri AI. And seamless with Audio Intelligence, powered by the S11 chip
 - A powerful health and fitness tracker designed with built-in safety features to bring you peace of mind.
- Watch Series 12, 46mm, GPS, Aluminium, Always-On Retina, S11, Digital Crown, watchOS

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Apple Watch Series 12
A work of heart.



Display		Features	
Display technology *	OLED	SOS alert function	✓
Display technology marketing name	Retina	Personal info management (PIM)	SOS
Display area	1196 mm²	Ambient light sensor	✓
Display brightness	2000 cd/m²	Virtual assistant	Apple Siri
Display brightness (min)	1 cd/m²	Haptic feedback	✓
Pixel density	326 ppi	Refurbished	✗
Minimum refresh rate	1 Hz	Electronic compass	✓
Always-on display	✓	Skin temperature sensor	✓
Colour display	✓	Recommended activity	Cooldown, Cycling, Dance, Elliptical, Golf, HIIT, Hiking, Kickboxing, Outdoor rowing, Paddling, Pilates, Running, Skiing, Snowboarding, Stair stepper, Swimming, Tai Chi, Walking, Wheelchair, Yoga, Rowing, Core training
Display type *	Digital		
Display resolution *	416 x 496 pixels		
Touchscreen *	✓	Virtual pacer function	✓
Rounded display corners	✓	Running dynamics	✓
Watch glass type	Ceramic Shield 2	Workout tracking	✓
Processor		Water temperature sensor	✓
Processor manufacturer	Apple	Apple Intelligence	✓
Processor model	S11	Altimeter	✓
Processor cores	2	Network	
Neural processor unit (NPU)	Apple Neural Engine (ANE)	Mobile network connection *	✗
Neural processor unit (NPU) cores	4	GPS (satellite)	✓
Design		BeiDou	✓
Band size *	M/L	GLONASS	✓
Shape *	Rectangular	Galileo	✓
Wrist size range	140 - 245 mm		
Market positioning *	Smartwatch		
Watch case size *	46 mm		
Watch case colour *	Bronze		

Design		Network	
Watch case material *	Aluminium	Quasi-Zenith Satellite System (QZSS)	✓
Band colour *	Bronze	Ports & interfaces	
Protection features	Dust resistant, Water resistant, Waterproof	Wi-Fi standards	Wi-Fi 4 (802.11n)
International Protection (IP) code	IP6X	Bluetooth	✓
Removable strap	✓	Bluetooth Low Energy (BLE)	✓
Magnetic charging connector	✓	USB port *	✗
Waterproof up to	50 m	Near Field Communication (NFC) *	✓
Performance		Wi-Fi *	✓
FM radio *	✗	Bluetooth version *	5.3
Mobile operating systems supported	iOS	Headphone connectivity *	Bluetooth
Operating system installed	watchOS 27	Power	
Flash memory	64 GB	Battery type *	Built-in battery
Built-in microphone *	✓	Battery life (max) *	24 h
Built-in speaker(s) *	✓	Battery life (power save mode)	38 h
Built-in camera *	✗	Wireless charging	✓
Crash detection	✓	Fast charging	✓
Fall detection	✓	Operational conditions	
Noise monitoring	✓	Operating temperature (T-T)	0 - 35 °C
Backtrack	✓	Storage temperature (T-T)	-20 - 45 °C
Audio Intelligence	Live Rewind, Shazam, Sound Recognition, Siri Recap	Operating relative humidity (H-H)	5 - 90%
Built-in flashlight	✓	Operating altitude	0 - 3000 m
Check In function	✓	Battery	
Health Sensing System	✓	Battery technology *	Lithium-Ion (Li-Ion)
Features		Software	
Accessibility features	Accessibility Shortcut, AssistiveTouch, Audio Volume Balance, Auto Transcription, Auto-Answer Calls, Bold Text, Button Click Speed, Color Filters, Hourly Chimes, Increase Contrast, Live Listen, Live Speech, Mono Audio, On/Off Labels, Personal Voice, RTT Support, Reduce Motion, Reduce Transparency, Taptic Time, Text Size, Touch Accommodations, Type to Siri, VoiceOver, Zoom, Sound Recognition, Voice Isolation	Health and Wellness apps	Readiness app; Vitals app with heart rate, respiratory rate, wrist temperature, sleep duration, and heart rate variability (HRV); Blood Oxygen app; ECG app; Heart Rate app; High and low heart rate notifications; Recovery HRV; High-frequency background heart rate tracking; Irregular rhythm notifications; Advanced Cycle Tracking app with fertile window estimates, retrospective ovulation estimates, and perimenopause and menopause support; Medications app; Mindfulness app with state of mind tracking; Noise app; Sleep app including sleep stages; Sleep score; Sleep apnea notifications; Hypertension notifications
Heart rate monitor *	✓		
Heart rate sensor type	Electrical, Optical		
Blood oxygen sensor	✓		
Depth gauge sensor	✓		
Sleep apnea detection	✓	Weight & dimensions	
Distance travelled	✓	Width	40 mm
Accelerometer	✓	Depth	46 mm
Gyroscope	✓	Thickness	9.7 mm
Activity tracker	✓	Weight	39.5 g
Multisport mode	✓	Packaging data	
Quality of sleep	✓	Package width	77 mm
Double tap gesture	✓	Package depth	240 mm
Irregular rhythm notifications	✓	Package height	30 mm
Hypertension notifications	✓	Package weight	300 g



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