

iPhone 16e 512GB Black (MD1X4QN/A)

Apple iPhone 16e - 5G smartphone - dual-SIM / Internal Memory 512 GB - OLED display - 6.1" - 2532 x 1170 pixels - rear camera 48 MP - front camera 12 MP - black



iPhone 16e is built for Apple Intelligence and powered by the A18 chip [1]. Shoot super-high-resolution photos with the 48MP Fusion camera. And with supersized battery life, you have more time to text, browse and more.

Key Selling Points

Latest iPhone. Greatest price.

Product Features

- BUILT FOR APPLE INTELLIGENCE**
Personal, private, powerful. Write, express yourself and get things done effortlessly [1].
- A18 CHIP - FAST INTO THE FUTURE**
A18 chip powers Apple Intelligence, gaming, and regular iOS updates to keep your iPhone feeling new for years to come.
- SUPERSIZED BATTERY LIFE**
Text, browse, and binge movies and shows with up to 26 hours of video playback [2] - the best battery life in a 6.1-inch iPhone [3].
- CAMERAS**
The two-in-one camera system has a 48MP Fusion camera for super-high-resolution photos and an optical-quality 2x Telephoto. Take incredible selfies with the 12MP front camera.
- DURABLE DESIGN. BRILLIANT DISPLAY**
Stunning 6.1-inch display uses OLED technology. Ceramic Shield front - tougher than any smartphone glass.
- ACTION BUTTON**
Quick, customizable access to your favorite apps and features, or use visual intelligence to learn about your surroundings.
- MAKE IT YOURS**
With iOS 18, you can customize your Home Screen and Lock Screen, send messages with text effects, Tapback with any emoji, and more.
- SATELLITE FEATURES**
If you don't have mobile service or Wi-Fi, iPhone can contact emergency services [4].
- PRIVACY**
Use Face ID to securely unlock, sign in to apps, and pay.

Legal

[1] Apple Intelligence is available in beta on all iPhone 16 models, iPhone 15 Pro and iPhone 15 Pro Max, with Siri and device language set to English (Australia, Canada, Ireland, New Zealand, South Africa, UK or US), as an iOS 18 update. Additional features and Chinese (Simplified), English (India, Singapore), French, German, Italian, Japanese, Korean, Portuguese (Brazil) and Spanish language support available in early April 2025, with more languages coming over the course of the year, including Vietnamese. Some features may not be available in all regions or languages.

[2] Battery life varies by use and configuration; see apple.com/uk/iphone for more information.

[3] The displays have rounded corners. When measured as a rectangle, the screen is 6.06 inches diagonally. Actual viewable area is less.

[4] Emergency SOS via satellite is included free for two years with the activation of any iPhone 14 or later model. Connection and response times vary based on location, site conditions and other factors. See support.apple.com/kb/HT213885 for more information.

Main Specifications

Product Description	Apple iPhone 16e - black - 5G smartphone - 512 GB - GSM
Product Type	5G smartphone
Energy Label QR Code URL	https://eprel.ec.europa.eu/qr/2261239
Energy Class	Class B
Manufacturer Model Number	A3409
Display	OLED display - 2532 x 1170 pixels - 6.1" - 460 ppi - Super Retina XDR Display - HDR - fingerprint-resistant oleophobic coating, Ceramic Shield
Processor	Apple A18 (6-core)
Neural Processor Unit (NPU)	Apple 16-core Neural Engine
Modem	Apple C1

Memory	512 GB
Operating System	iOS 26
Apple Intelligence	Yes
Main Camera	48 Megapixel - 2x optical zoom - 26 mm - f/1.6 - focus: automatic
Front Camera	12 Megapixel f/1.9 - automatic
Service Provider	Not specified
SIM Card	Dual-SIM - nano SIM, Electronic SIM card (e-SIM)
Wireless Interface	NFC, Wi-Fi 6, Bluetooth
Security Devices	Face recognition
Connectors	USB-C
Wireless Charging Standards	Qi
Protection	Water-resistant, splash-resistant, dust-resistant
Colour	Black
Dimensions (WxDxH)	71.5 mm x 7.8 mm x 146.7 mm
Weight	167 g
Carbon Footprint	62 kg carbon emissions
Rare Earth Materials	100% recycled rare earth elements
Specific Absorption Rate (SAR)	1.48 W/kg (head) 1.49 W/kg (body) 2.61 W/kg (limb)
Manufacturer Warranty	1-year warranty

Extended Specification

Environmental Parameters

Max Depth of Water Resistance	6 m
Min Operating Temperature	0 °C
Max Operating Temperature	35 °C
Humidity Range Operating	5 - 95% (non-condensing)

General

Product Type	Smartphone
Energy Label QR Code URL	https://eprel.ec.europa.eu/qr/2261239
Energy Class	Class B
Manufacturer Model Number	A3409
Form Factor	Touch
Protection	Water-resistant, splash-resistant, dust-resistant
Width	71.5 mm
Depth	7.8 mm
Height	146.7 mm
Weight	167 g
Body Colour	Black
Body Material	Glass, aerospace-grade aluminium

Battery

Technology	Lithium Ion
Fast Charging Technology	Apple fast charging technology
Wireless Charging	Yes
Wireless Charging Standards	Qi
Battery Endurance per Cycle	41 hrs
Battery Endurance in Cycles	1000

Run Time Details	Playback (audio): up to 90 hrs Playback (video): up to 26 hrs Playback (streamed video): up to 21 hrs
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Processor

Type	Apple A18
Performance Cores	2
Efficient Cores	4
Processor Core Qty	6-core

Main Camera

Sensor Resolution	48 Megapixel
Optical Image Stabiliser	Optical Image Stabiliser (OIS)
Lens Aperture	F/1.6
Min Focal Length	26 mm
Focus Adjustment	Automatic
Optical Zoom	2x
Digital Zoom	10x
Special Effects	Photographic Styles
Camera Modes	Burst mode, Panorama, night mode, Timelapse video, wide colour capture for photos and Live Photos, Portrait mode with adjustable depth control, Time Lapse (Night mode), Portrait Lighting with six effects
Face Detection	Face recognition
HDR Mode	Smart HDR 5
Light Source	True Tone LED flash
Video Resolutions	1920 x 1080 (1080p) at 30 fps, 1920 x 1080 (1080p) at 60 fps, 1280 x 720 (720p) at 30 fps, Slo-mo video 1920 x 1080 (1080p) at 120 fps, 3840 x 2160 (4K) at 30 fps, 3840 x 2160 (4K) at 60 fps, 3840 x 2160 (4K) at 24 fps, 1920 x 1080 (1080p) at 25 fps, Slo-mo video 1920 x 1080 (1080p) at 240 fps, 3840 x 2160 (4K) at 25 fps
Features	Sapphire crystal lens cover, Cinematic video stabilisation, Cinematic video stabilisation, Playback zoom, geotagging, Stereo Recording, Continuous autofocus video, 8MP still photos recording 4K video, Time-lapse video with stabilisation, Advanced red-eye correction, Optical image stabilization for video, Panorama (up to 63MP), HEIF image capture, Audio zoom, QuickTake video, HEVC (High Efficiency Video coding), Deep Fusion, Digital zoom up to 6x for video, Photonic Engine, Wind noise reduction, Spatial Audio and stereo recording, Audio Mix, 4K Dolby Vision video recording up to 60 fps, 1080p Dolby Vision video recording up to 60 fps, Hybrid Focus Pixels, 2-in-1 camera system

Front Camera

Sensor Resolution	12 Megapixel
Lens Aperture	F/1.9
Focus Adjustment	Automatic
HDR Mode	Smart HDR 5
Special Effects	Photographic Styles
Face Detection	Face recognition
Camera Modes	Burst mode, night mode, wide colour capture for photos and Live Photos, Portrait mode with adjustable depth control, Time Lapse (Night mode), Portrait Lighting with six effects
Video Resolutions	1920 x 1080 (1080p) at 30 fps, 1920 x 1080 (1080p) at 60 fps, Slo-mo video 1920 x 1080 (1080p) at 120 fps, 3840 x 2160 (4K) at 30 fps, 3840 x 2160 (4K) at 60 fps, 3840 x 2160 (4K) at 24 fps, 1920 x 1080 (1080p) at 25 fps, 3840 x 2160 (4K) at 25 fps
Light Source	Retina Flash
Features	Auto image stabilisation, Animoji, Memoji, TrueDepth camera, Cinematic video stabilisation, QuickTake video, Time-lapse video with stabilisation, Lens correction, Deep Fusion, Autofocus with Focus Pixels, Photonic Engine, 4K Dolby Vision video recording up to 60 fps, 1080p Dolby Vision video recording up to 60 fps, Spatial Audio and stereo recording, Wind noise reduction, Audio Mix

Cellular

Technology	WCDMA (UMTS) / GSM
Mobile Broadband Generation	5G

Service Provider	Not specified
Operating System	iOS 26
Intelligent Assistant	Siri
Apple Intelligence	Yes
Navigation	GPS, GLONASS, BeiDou, Galileo, QZSS, NavIC
SIM Card Type	Nano SIM, Electronic SIM card (e-SIM)
SIM Card Qty	Dual-SIM
Payment Technology	Apple Pay
Input Device	Multi-touch

Sustainability Information

Repairability Class	Class C
EPEAT Compliant	Yes
EPEAT Level	EPEAT Gold
Carbon Footprint	62 kg carbon emissions
Rare Earth Materials	100% recycled rare earth elements
Product Recycled Content	30 % - recycled or renewable content
Packaging Recycled Content	100 % - recycled fibre

Display

Type	OLED display
Technology	Super Retina XDR Display
Diagonal Size	6.1"
Display Resolution	2532 x 1170 pixels
Pixel Density	460 ppi
Max Brightness	800 cd/m²
HDR	Yes
HDR Technology	HDR10
Enhancement Technology	Dolby Vision
Contrast Ratio	2000000:1
Protection	Fingerprint-resistant oleophobic coating, Ceramic Shield
Display Languages	Danish, Hindi, Hebrew, Hungarian, Czech, Croatian, Indonesian, Thai, Slovak, Chinese (traditional), Chinese (simplified), Vietnamese, Ukrainian, Brazilian Portuguese, German, French, Italian, Norwegian, Portuguese, Polish, Finnish, Swedish, Russian, Spanish, Dutch, Greek, Turkish, Arabic, Romanian, Catalan, Japanese, Korean, Malay, UK English, US English, Australian English, French Canadian, Spanish (Latin American), Chinese (Traditional, Hong Kong), Spanish (Mexican)
Features	Display Zoom, Reachability (screen shifting), True Tone display, Wide colour display (P3), Haptic touch, Hybrid Log-Gamma (HLG), 1200 nits max brightness (HDR)

Memory

Internal Memory Capacity	512 GB
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Miscellaneous

Ingress Protection Rating	IP68
Repeated Free Fall Reliability Class	Class C
Compliant Standards	IEC 60529 IP68, HAC (Hearing Aid Compatible), BFR-free, PVC-free, Mercury-free, Arsenic-free
Included Accessories	USB-C to USB-C cable (1 m)

Neural Processor Unit (NPU)

Artificial Intelligence Processor Family	Apple
Artificial Intelligence Processor Model	16-core Neural Engine

Phone Features

Sensors	Proximity sensor, digital compass, barometer, dual ambient light sensor, high-g accelerometer, gyroscope with high dynamic range
Security Devices	Face recognition
Security Technology	Face ID
Additional Features	Eye-tracking technology, MIMO technology, Wi-Fi Calling, iBeacon microlocation, QuickType keyboard, Apple TV support (2nd or later), FaceTime audio, Express Transit cards with power reserve, 4K HDR AirPlay Mirroring, FaceTime HD (1080p), RTT/TTY compatible, Voice isolation, Zoom with rear-facing camera, Wide Spectrum microphone mode, SharePlay, Screen sharing, Portrait mode in FaceTime video, FaceTime call with SharePlay, Crash Detection, Apple Cash, Emergency SOS via satellite, Roadside Assistance via satellite, action button, messages via satellite, Find My via satellite, Writing Tools, VoiceOver, Zoom, Magnifier, Voice Control, Switch Control, AssistiveTouch, Closed Captions, Live Captions, Personal Voice, Live Speech, Vocal Shortcuts, Type to Siri, Spoken Content

Manufacturer Warranty

Service & Support	Limited warranty - 1 year ¹ Technical support - consulting - 90 days
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Connections

Connector Type	USB Type-C - 24 pin USB-C
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Media Player

Supported Digital Audio Standards	AAC, MP3, FLAC, Apple Lossless, Dolby Digital, Dolby Digital Plus
Supported Digital Video Standards	H.264, HEVC, AV1
Video Enhancements	HDR with Dolby Vision, HDR10, Hybrid Log-Gamma (HLG)
Sound Enhancements	Dolby Digital Plus sound, Dolby Atmos sound technology, Dolby Digital sound, Spatial audio

Communications

Data Transmission	EDGE, HSPA+, VoLTE, FDD-LTE, Gigabit LTE, 5G NR FR1, TD-LTE
2G Band	850 GSM, 900 GSM, 1800 GSM, 1900 GSM
3G UMTS Band	Band 1, Band 2, Band 5, Band 8, Band 10
3G UMTS Frequency	2100, 1900, 850, 900, 1700 EAWS
4G LTE Band	Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 12, Band 13, Band 17, Band 18, Band 19, Band 20, Band 25, Band 26, Band 28, Band 30, Band 32, Band 34, Band 38, Band 39, Band 40, Band 41, Band 42, Band 48, Band 66, Band 53
4G LTE Frequency	FDD 2100, FDD 1900 PCS, FDD 1800+, FDD 1700 - 2110 AWS, FDD 850, FDD 2600, FDD 900, FDD 700a, FDD 700c, FDD 700b, FDD 800 lower, FDD 800 upper, FDD 800 DD, FDD 1900+, FDD 850+, FDD 700 APT, FDD 2300 WCS, FDD 1500 L, TDD 2000, TDD 2600, TDD 1900, TDD 2300, TDD 2500, TDD 3500, TDD 3600, FDD 1700 - 2110 AWS-3, Band 53
5G NR Band	N1, n2, n3, n5, n7, n8, n20, n28, n38, n41, n66, n70, n75, n76, n77, n78, n79, n40, n25, n12, n48, n26, n30, n53
5G NR Frequency	FDD 2100, FDD 1900PCS, FDD 1800, FDD 850, FDD 2600, FDD 900, FDD 800, FDD 700APT, TDD TD 2600, TDD TD 2500, FDD AWS-3, FDD AWS-4, SDL DL 1500+, SDL DL 1500-, TDD TD 3700, TDD TD 3500, TDD TD 4500, TDD 2300, FDD 1900, n12, TDD 3500, FDD 850, FDD 2300, n53
Wireless Interface	NFC, IEEE 802.11ax, Bluetooth 5.3
Modem	Apple C1

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