

**MOBILE PHONE**  
**POCO F8**  
**ULTRA/16/512GB**  
**BLACK**  
**MZB0M43EU**  
**POCO**



Model: MZB0M43EU

Manufacturer: POCO

EAN: 6932554472290

Product Code: 310711

**R19,210**

### UltraPower performance

#### Snapdragon® 8 Elite Gen 5

#### Huge leap in performance

Introducing the brand-new flagship chipset, engineered with the cutting-edge 3nm process. With an All-Big-Core CPU architecture, it effortlessly powers through high-load scenarios with exceptional energy efficiency.

### VisionBoost D8 chipset

Equipped with a GEX module, POCO F8 Ultra features dedicated graphics boost chipset leverages pre-trained AI models to dramatically enhance image details and deliver high-quality graphics. With

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advanced motion interpolation technology, dynamic scenes appear smoother and more fluid than ever.

## **WildBoost Optimisation**

### **Frame recovery in heavy-load scenario**

Predicts per-frame computing demand within each frame generation cycle, enabling proactive intervention to prevent frame drops. This ensures higher, more stable frame rates and lower power consumption even under heavy-load gaming.

## **Ultrasmooth gaming experience**

### **1% Low Frame Rates**

Stability is our UltraPower. The 1% low frame rate metric represents the worst moments during performance drops. We deliver a higher 1% low frame rate experience, providing a steadier gaming experience even in heavy-load scenarios.

## **LiquidCool Technology**

### **6700mm<sup>2</sup> 3D dual-channel, dual-layer IceLoop system**

The POCO F8 Ultra features the innovative 3D dual-channel, dual-layer IceLoop cooling system. With an ultra-large surface area that effectively targets key heat sources and an enhanced volume, it ensures sustained peak performance. The dual-channel design delivers powerful cooling for both the SoC and the camera module, effectively managing the thermal output of these critical heat sources.

## **User-oriented thermal conductivity structure**

Optimize heat transfer pathways to redirect thermal flow away from the grip zone, minimizing heat transmission to the hand.

## **Intelligent temperature control**

Real-time multi-surface temperature monitoring enables precise zoned temperature control.

## **UltraPower battery**

### **Massive 6500mAh (typ) battery**

### **Long-lasting battery life for great peace of mind**

POCO F8 Ultra is powered by a high-energy-density silicon-carbon dual-cell battery, delivering the

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largest battery capacity in the POCO F series. The battery retains  $\geq 80\%$  of its capacity even after 1,600 charge cycles, ensuring your prolonged use.

### **100W Wired HyperCharge**

#### **50W wireless HyperCharge**

POCO F8 Ultra features ultrafast charging that ensures both efficiency and safety. Stay powered anytime you want.

POCO F8 Ultra also supports 100W PPS universal charging protocol bringing broad compatibility with various fast chargers.

### **Up to 22.5W wired reverse charging**

#### **Powerful battery ready to share**

22.5W reverse charging delivers industry-leading efficiency. Share your powerful battery with friends and rapidly charge other devices.

### **Smart charging**

#### **Enjoy a smooth and stable experience**

Smart charging is designed to control phone temperature in charging status, ensuring a smooth and stable experience, by intelligently adjusting charging speed — considering battery level, temperature, and app usage — and power distribution between the system and the battery.

### **UltraPower photography**

#### **Light Fusion 950 image sensor**

#### **Versatile ultra-dynamic light sensor**

Featuring the Light Fusion 950 image sensor, the POCO F8 Ultra delivers a 13.5EV high dynamic range. With extraordinary light-capturing capability, it handles complex lighting with ease — from low-light scenes to strong backlighting and sharp contrasts — precisely capturing every detail in light and shadow.

### **Pro-grade optics**

#### **Engineered for pure, clear imaging**

The new hardware-level G+P lens module and Precise multi-coating process effectively minimise lens flare, ghosting, and haze, resulting in cleaner visuals.

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## **5x periscope telephoto lens**

### **Beauty brought within reach**

For the first time, the POCO F8 Ultra adopts a 5x periscope telephoto lens. Coupled with OIS (Optical Image Stabilisation), it captures the distant beauty like it's right in front of you.

## **One telephoto lens that does it all**

### **From close-ups to distant scenes**

#### **Close-up shooting**

Ideal for capturing fine details, with lower distortion and enhanced sharpness.

#### **Capture instantly**

Ideal for capturing dynamic moments with perfect clarity and precision, with almost zero-lag snapshot capability within the 5x to 10x range

## **50MP ultra-wide lens**

### **Delivering a spectacular field of view**

The flagship ultra-wide-angle lens offers an exceptionally broad field of view, providing greater creative space for more striking visual impact. Capture the grandeur of vast landscapes in a single shot.

## **32MP front camera**

### **Group selfies made easier**

When the camera detects two people, it intelligently switches to a 0.8x ultra-wide angle to fit everyone into the frame.

## **Dynamic shots**

### **One stop creative experience**

Capture 1440P ultra-clear dynamic shots with EIS stabilization and HDR enhancement, delivering smoother, more vibrant visuals with outstanding clarity. You can also create dynamic photo collages or convert videos into dynamic shots for extra creative fun.

## **AI Creativity Assistant**

Xiaomi HyperAI is always ready to provide you with creative possibilities that fuel your inspiration.

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## **AI Beautify**

Auto-adjust key settings like exposure, saturation and contrast to beautify your photos.

## **AI Cutouts**

Supports AI cutouts with subject recognition, movement, and background inpainting.

## **UltraPower display**

### **Ultraslim bezels**

### **Enjoy immersive visuals**

The ultra-large 6.9" display features a remarkably slim 1.68mm bottom bezel—POCO's narrowest ever—with the three side bezels different from the bottom by only 0.18mm. This creates a near quad-equal bezel design that offers an expanded field of view and a more immersive visual experience.

## **POCO HyperRGB display**

### **Comparable to 2K image clarity**

POCO HyperRGB display adopts a full RGB subpixel structure, making full use of red, green, and blue subpixels. It delivers a sharp and accurately colored visual experience comparable to 2K, while reducing power consumption by 19.5% compared with the previous generation.

## **Global debut M10 display panel**

### **Delicately stunning**

The M10 display panel consists of brand-new red luminous material, significantly improving luminous efficiency by 11.4%, and further reducing power consumption. Even under bright outdoor sunlight, the display remains vivid and clear.

## **Ultrasonic fingerprint sensor**

For the first time, POCO F8 Ultra comes with press-and-slide fingerprint enrolment, reducing enrolment time by 83%. With its more ergonomic unlocking position, quicker unlocking speed, and support for wet hand unlocking, it delivers a next-gen unlocking experience.

## **All-round eye care**

### **Keep eye fatigue away**

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All-day DC dimming consistently delivers smooth visuals without the invisible flicker that typically causes eye fatigue. By optimising its eye care approaches, POCO F8 Ultra brings you a comfortable viewing experience across multiple scenarios during extended use.

### **1 nit minimum brightness**

The display supports a minimum brightness of 1 nit, making gaming or watching videos in low-light environments easier on the eyes and more comfortable.

### **Circular polarisation technology 2.0**

Light from the screen is closer to natural light, bringing comfort and care to your eyes. It exhibits less colour shift at different angles with more uniform colours and brightness.

### **3,500 nits ultrabright display**

#### **Super sunlight display**

POCO F8 Ultra achieves 3,500 nits peak brightness covering 25% of the screen area when used outdoors under direct sunlight, presenting more visual detail.

### **UltraPower design**

#### **Third-generation Nano-tech material**

#### **Stylish and eye-catching**

Engineered with an upgraded formula and process for enhanced durability and stain resistance. Made from natural silicon ore and manufactured without harmful solvents, it represents a more eco-conscious choice.

### **Glass Fiber**

#### **Slim, lightweight, and highly durable**

With glass fiber back cover, the body is lighter and thinner, yet ultra-durable and crack-resistant.

### **High-strength frame**

Strong like a shield

### **Fortified with aluminium alloy**

The mid-frame, camera deco, and lens bezel are all made with high-strength aluminium alloy for

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exceptional durability.

### **POCO Shield Glass**

Ultra-durable Shield Glass, engineered to withstand scratches and impacts.

### **IP68**

#### **Top-notch dust and water resistance**

The exceptional dust and water resistance make incidents easy to handle.

### **UltraPower audio experience**

#### **Sound by Bose Co-tuning**

#### **Revolutionary mobile audio experience**

When Bose's six decades of acoustic expertise and Sound by Bose technology combine with POCO's advanced engineering, we have overcome the inherent constraints of compact smartphone design. For the first time in a mobile audio device, users can experience rich bass, detailed sound, clear vocals, and an immersive soundstage—delivering a truly revolutionary mobile audio experience.

#### **Symmetrical stereo speakers**

#### **Independent subwoofer**

Dual 1115F symmetrical stereo speakers work in harmony with an ultra-large 1620 independent subwoofer to create a 2.1-channel audio system, delivering a more stable sound image, deeper bass, and a wider soundstage. Users can experience deep bass, rich details and immersive soundstage.

### **Xiaomi Astral Communication**

#### **Xiaomi Surge T1S + Xiaomi Surge T1+**

#### **Dual-chip signal enhancement**

Powered by Xiaomi Surge T1S and Xiaomi Surge T1+ tuner chipsets, POCO F8 Ultra optimizes Wi-Fi, Bluetooth, GPS and cellular signals for smoother, smarter connectivity.

### **Xiaomi Offline Communication**

#### **Pushing the boundaries of connectivity**

Even without network connection, you can still make voice calls over one kilometer, staying seamlessly connected anytime.

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## **Embrace the multi-modal AI ecosystem**

Unleash your creativity with the AI assistant powered and customized by Google. It integrates Xiaomi's cutting-edge multi-modal processing technology capable of handling text, voice and images.

Chat with Gemini, a truly helpful personal AI assistant from Google, to supercharge your ideas.

## **Gemini overlay**

Get quick access to Gemini without switching apps.

## **Gemini Live**

Talk things out with Gemini in real time.

## **Image generation**

Create stunning images with Gemini.

## **Gemini connected apps**

Pull information and take action across apps in Gemini.

Instantly search what you see on your phone. A simple action starts a Google search without leaving the app or content you're on. Search any image, video, or text on your screen. Circle, highlight, scribble, or tap to pinpoint what you're curious about, no screenshots necessary.

Summary: POCO F8 Ultra. Display diagonal: 17.5 cm (6.9"), Display resolution: 2608 x 1200 pixels. Processor frequency: 3.6 GHz, Processor family: Qualcomm Snapdragon, Processor model: 8 Elite Gen 5. RAM capacity: 16 GB, RAM type: LPDDR5X, Internal storage capacity: 512 GB. Rear camera resolution (numeric): 50 MP, Rear camera type: Triple camera. SIM card capability: Dual SIM. Battery capacity: 6500 mAh. Product colour: Black. Weight: 220 g | Vendor Homepage:

<https://www.mi.com/global/product/poco-f8-ultra/> | Form factor: Bar | Product colour: Black |

Protection features: Dust resistant/Water resistant | Waterproof up to: 1.5 | Compatible memory cards: Not supported | Internal storage capacity: 512 | RAM capacity: 16 | RAM type: LPDDR5X | Colour depth: 12 | Contrast ratio (typical): 5000000:1 | Display brightness: 600 | Display brightness (min): 1 | Display diagonal: 6.9 | Display glass type: POCO Shield Glass | Display number of colours: 68 billion colours | Display resolution: 2608 x 1200 | High Dynamic Range (HDR) supported: Yes |

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High Dynamic Range (HDR) technology: Dolby Vision/High Dynamic Range 10+ (HDR10 Plus) | Maximum display brightness (Outdoor): 3500 | Maximum refresh rate: 120 | Panel type: AMOLED | Screen shape: Curved | Screen to body ratio: 94.25 | Touch response rate: 480 | AI processor family: Qualcomm | Performance cores: 6 | Processor boost frequency: 4.6 | Processor cores: 8 | Processor family: Qualcomm Snapdragon | Processor frequency: 3.6 | Processor model: 8 Elite Gen 5 | Auto focus: Yes | Camera High Dynamic Range (HDR) mode: Yes | Flash type: LED | Front camera resolution (numeric): 32 | Front camera type: Single camera | Image stabilizer: Yes | Image stabilizer type: Optical Image Stabilization (OIS) | Macro photography: Yes | Maximum frame rate: 1920 | Night mode: Yes | Panorama: Yes | Portrait mode: Yes | Rear camera aperture number: 1.67 | Rear camera flash: Yes | Rear camera lens elements: 6-element lens | Rear camera pixel size (Quad Pixel technology): 2.4 | Rear camera resolution (numeric): 50 | Rear camera sensor size: 1/1.31 | Rear camera type: Triple camera | Resolution at capture speed: 1280x720@120fps/1280x720@1920fps/1280x720@240fps/1280x720@30fps/1280x720@480fps/1280x720@960fps | Second rear camera aperture number: 3 | Second rear camera focal length: 115 | Second rear camera lens elements: 4-element lens | Second rear camera resolution (numeric): 50 | Self-timer: Yes | Slow motion mode: Yes | Slow motion rate: 1280x720@120fps, 1280x720@240fps, 1280x720@480fps, 1280x720@960fps, 1280x720@1920fps, 1920x1080@120fps, 1920x1080@240fps, 1920x1080@960fps | Third rear camera aperture number: 2.4 | Third rear camera focal length: 18 | Third rear camera resolution (numeric): 50 | Time lapse mode: Yes | Video capture resolution (max): 7680 x 4320 | Video recording modes: 1080p/2160p/4320p/720p | 3G standards: WCDMA | 4G standard: LTE-TDD & LTE-FDD | 5G standard: Sub6 NSA/Sub6 SA | aptX technology: Yes | Bluetooth: Yes | Bluetooth profiles: AAC/APTX/APTX-Adaptive/APTX-HD/LC3/LDAC/LHDC/SBC | Bluetooth version: 6.0 | MIMO: Yes | Miracast: Yes | Mobile network generation: 5G | Near Field Communication (NFC): Yes | SIM card capability: Dual SIM | SIM card type: NanoSIM + eSIM | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | Wi-Fi Direct: Yes | Wi-Fi standards: 802.11a/802.11b/802.11g/Wi-Fi 4 (802.11n)/Wi-Fi 5 (802.11ac)/Wi-Fi 6 (802.11ax)/Wi-Fi 6E (802.11ax)/Wi-Fi 7 (802.11be) | Headphone connectivity: USB Type-C | USB connector type: USB Type-C | E-mail: Yes | Multimedia Messaging Service (MMS): Yes | Short Message Service (SMS): Yes | BeiDou: Yes | Electronic compass: Yes | Galileo: Yes | GLONASS: Yes | GPS (satellite): Yes | NavIC: Yes | Position location: Yes | Quasi-Zenith Satellite System (QZSS): Yes | Face recognition: Yes | Fast charging: Yes | Fast charging technology: Hypercharge/Power Delivery 2.0/Power Delivery 3.0 | Fingerprint reader: Yes | Video call: Yes | Wireless charging: Yes | Wireless charging power: 50 | Audio formats supported: AAC/AMR/APE/AWB/FLAC/MP3/OGG/WAV | Audio system: Dolby Atmos |

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Number of microphones: 3 | Speakers: Stereo | Video formats supported: 3GP/MKV/MP4/WEBM | App distribution platform: Google Play | Platform: Android | User interface (UI): HyperOS 3 | Battery capacity: 6500 | Accelerometer: Yes | Ambient light sensor: Yes | Battery endurance in cycles: 1000 | Battery endurance per cycle: 4020 | Colour temperature sensor: Yes | Energy efficiency class: A | Energy efficiency scale: A to G | Flicker sensor: Yes | Gyroscope: Yes | Infrared sensor: Yes | International Protection (IP) code: IP68 | Proximity sensor: Yes | Repairability class: C | Repeated free fall reliability class: A | USB Power Delivery (USB PD): Yes | USB Type-C charging port: Yes | USB Type-C required charging power (max): 100 | USB Type-C required charging power (min): 10 | Depth: 8.3 | Height: 163.33 | Weight: 220 | Width: 77.82 | AC adapter included: No | Cables included: USB Type-C | Protective case: Yes | Quick start guide: Yes | SIM card ejector pin: Yes | Warranty card: Yes | Model name: F8 Ultra | Units per Pallet: 0 | Unit Calculated Volume: 0.0013002 | Product Net Weight: 0.22 | Unit Calculated Weight: 0.5125

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