

Technical Specification: NeoPhone X1

1. Overview

The NeoPhone X1 is a cutting-edge smartphone designed for high performance, durability, and seamless connectivity. Featuring an advanced AI-powered processor, an immersive display, and industry-leading battery life, the NeoPhone X1 is built for the modern user.

2. Technical Specifications

2.1 Design & Build

- Dimensions: 160.8 x 75.1 x 7.8 mm
- Weight: 195g
- Material: Aerospace-grade aluminum frame, Gorilla Glass Victus 2 (front and back)
- Colors: Midnight Black, Aurora Blue, Sunset Gold
- Water & Dust Resistance: IP68 (water-resistant up to 1.5m for 30 minutes)

2.2 Display

- Type: 6.7-inch AMOLED, LTPO 2.0
- Resolution: 3200 x 1440 pixels (QHD+)
- Refresh Rate: Adaptive 1Hz – 120Hz
- Brightness: 1800 nits peak brightness
- HDR Support: HDR10+, Dolby Vision
- Protection: Corning Gorilla Glass Victus 2

2.3 Performance

- Chipset: NeoCore X1 AI Processor (5nm architecture)
- CPU: Octa-core (1x 3.2GHz Cortex-X3, 3x 2.8GHz Cortex-A710, 4x 2.0GHz Cortex-A510)
- GPU: NeoGraph 920
- RAM: 12GB / 16GB LPDDR5X
- Storage: 256GB / 512GB UFS 4.0 (non-expandable)
- Operating System: NeoOS 2.1 (based on Android 14)

2.4 Camera System

Rear Cameras:

- **Main: 50MP (f/1.8, OIS, PDAF, Laser Autofocus)**
- **Ultra-Wide: 48MP (f/2.2, 120° field of view)**
- **Telephoto: 12MP (f/2.4, 3x Optical Zoom, OIS)**
- **Periscope: 10MP (f/3.5, 10x Optical Zoom)**
- **Video Recording: 8K at 30fps, 4K at 120fps, HDR10+, AI-enhanced stabilization**

Front Camera:

- **Resolution: 32MP (f/2.0, AI-enhanced)**
- **Features: Auto-HDR, 4K recording at 60fps, Night Mode**

2.5 Battery & Charging

- **Battery Capacity: 5,500mAh**
- **Charging:**
 - **80W wired fast charging (0-100% in 35 minutes)**
 - **50W wireless charging**
 - **10W reverse wireless charging**
- **Battery Life: Up to 48 hours (mixed usage)**

2.6 Connectivity

- **SIM: Dual SIM (Nano-SIM + eSIM)**
- **5G: Yes (Sub-6GHz & mmWave support)**
- **Wi-Fi: Wi-Fi 7 (802.11be), MIMO, Wi-Fi Direct**
- **Bluetooth: v5.3, LE Audio**
- **GPS: GPS, GLONASS, Galileo, BDS**
- **NFC: Yes**
- **Ports: USB Type-C 3.2, No 3.5mm headphone jack**

2.7 Security & Sensors

- **Fingerprint Scanner: Under-display ultrasonic**
- **Face Unlock: AI-based facial recognition**
- **Sensors:**
 - **Accelerometer**
 - **Gyroscope**
 - **Proximity sensor**
 - **Compass**
 - **Barometer**
 - **Ambient Light Sensor**
 - **IR Blaster**
 - **UWB (Ultra-Wideband)**

2.8 Audio & Multimedia

- **Speakers:** Stereo speakers, Dolby Atmos support
- **Microphones:** Triple-microphone setup with noise cancellation
- **Audio Codecs:** AAC, aptX HD, LDAC, LHDC, Spatial Audio

2.9 Software Features

- **AI Enhancements:**
 - NeoAI Voice Assistant
 - AI-powered photography enhancements
 - Smart battery optimization
- **Customization:**
 - Always-on Display with interactive widgets
 - Dynamic Themes based on AI mood detection
- **Gaming Features:**
 - 360Hz touch sampling rate
 - Advanced thermal cooling system
 - AI-driven frame rate optimization

2.10 Accessories & Compatibility

- **Included in Box:**
 - NeoPhone X1
 - 80W Fast Charger
 - USB-C to USB-C Cable
 - SIM Ejector Tool
 - Quick Start Guide
 - **Compatible Accessories:**
 - NeoSmart Stylus
 - NeoPhone X1 Smart Case
 - NeoBuds Pro Wireless Earbuds
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3. Conclusion

The NeoPhone X1 represents the next evolution of flagship smartphones, delivering best-in-class performance, exceptional camera capabilities, and a premium design. Whether for gaming, photography, or productivity, the NeoPhone X1 is designed to exceed expectations.

Release Date: Q3 2024

Starting Price: \$999 (base model)