

# OnePlus 8T Mobile

---

**OnePlus 8T Mobile** It sits between the OnePlus 8 and OnePlus 9 series, offering high-end specs with some notable upgrades over the OnePlus 8, particularly in charging speed and display refresh rate.

## 1. Display:

- 6.55-inch Fluid AMOLED
- 120Hz refresh rate (upgraded from 90Hz on the OnePlus 8)
- 2400 × 1080 (FHD+) resolution
- HDR10+ support
- 8192-level brightness adjustment

## 2. Performance:

- Qualcomm Snapdragon 865 (5G-enabled)
- Adreno 650 GPU
- 8GB/12GB LPDDR4X RAM
- 128GB/256GB UFS 3.1 storage (faster than UFS 3.0 in OnePlus 8)

## 3. Battery & Charging:

- 4500mAh battery (dual-cell design)
- Warp Charge 65W (charges 0-100% in ~39 mins)
- No wireless charging

## 4. Cameras:

- Rear Quad-Camera Setup:
- 48MP (Sony IMX586) main sensor (f/1.7, OIS)
- 16MP ultra-wide (123° FOV, f/2.2)
- 5MP macro lens
- 2MP monochrome sensor
- Front Camera:
- 16MP (f/2.4, fixed focus)

## 5. Software & Updates:

- Originally launched with Oxygen OS 11 (Android 11)
- Upgradable to Oxygen OS 13 (Android 13) (final major update)
- No Android 14 officially (community ROMs may be available)

## 6. Design & Build:

- IP68 rating missing (only splash-resistant)
- Colors: Aquamarine Green, Lunar Silver

## 7. Other Features:

- In-display fingerprint sensor (optical)
- Dual stereo speakers
- 5G support (depending on region)
- No headphone jack

## Pros:

- Still smooth with 120Hz display & Snapdragon 865
- 65W fast charging remains competitive
- Clean Oxygen OS (though updates have ended)

#### Cons:

- No more official software updates (last update: Android 13)
- No wireless charging
- Camera performance lags behind newer mid-range phones

### OnePlus 8T: Extended Review (2024 Perspective)

#### 1. Software & Update Status (2024)

- Last Official Update: Android 13 (Oxygen OS 13.1)
- Security Patches: Ended in late 2023 (no further guarantees).
- Custom ROMs Available? Yes!
- Lineage OS 21 (Android 14)
- Pixel Experience (for stock Android feel)
- Nameless AOSP (performance-focused)

#### 2. Performance in 2024

- Snapdragon 865 still holds up for:
- Daily tasks (social media, browsing, videos).
- Gaming (Gen shin Impact, COD Mobile) at medium-high settings.
- UFS 3.1 storage ensures fast app launches.
- No overheating issues (unlike some SD888/8 Gen 1 phones).

#### 3. Camera Performance (vs Modern Phones)

- Strengths:
- Daylight photos are sharp (48MP main sensor).
- Ultra-wide is decent for landscapes.
- Weaknesses (vs 2024 mid-range phones):
- Poor low-light performance (no large sensor like IMX890).
- Useless 2MP monochrome & 5MP macro lenses.
- No 4K@60fps on ultra-wide (only main cam).

#### 4. Battery Life & Charging

- Screen-on Time (SOT): ~5-6 hours (120Hz + 5G).
- Warp Charge 65W is still top-tier in 2024.
- Battery Degradation? Expect ~80% health if bought used.

#### 5. Missing Features (vs Newer Phones)

- No wireless charging.
- No official IP rating (only splash-resistant).
- No telephoto lens (2x zoom is digital).

#### 1. Budget Flagship (~\$200-300 Used)

- Samsung Galaxy S21 FE (\$280): 120Hz, IP68, longer updates.

#### 2. New Mid-Range (\$300-500)

- Nothing Phone (2) (\$499): Clean software, Snapdragon 8+ Gen 1.
- Pixel 7a (\$399): Best camera, 7 years of updates.

#### 3. Used Flagship Killers (~\$150-200)

- POCO F4 GT (\$200): Snapdragon 8 Gen 1, 120Hz, 120W charging.
- Real me GT Neo 3 (\$220): DIMENSTY 8100, 150W charging.

## Who Should Buy the OnePlus 8T in 2024?

- Good for:
- Users who want a cheap, smooth 120Hz display.
- Fast charging enthusiasts.
- Custom ROM tinkerers (Lineage OS/Pixel Exp.).
- Avoid if:
- You need long software support.
- You care about low-light photography.
- You want wireless charging/IP68.
- The Ultimate OnePlus 8T Deep Dive (2024 Edition)

## 1. Hidden Features & Easter Eggs

- DC Dimming: Reduces PWM flicker (Settings > Display > Eye Comfort).
- Ultra-Low Latency Touch Mode: Boosts touch response in games (Developer Options).
- RAM Expansion: Can allocate up to 7GB of storage as virtual RAM (Oxygen OS 12+).
- Quick Launch: Double-tap power button for camera/Google Pay (customizable).

## 2. Gaming Performance Revisited

- 2024 Game Benchmarks (AVG FPS):
- Gen shin Impact: 45-50 FPS (Medium, 60Hz cap).
- COD Mobile: 60 FPS (Max, 120Hz display feels smoother).
- HONK AIStar Rail: 40 FPS (High, thermal throttles after 20 mins).
- Pro Tip: Use FNATIC Mode (Game Space) to block notifications + boost performance.

## 3. Battery Replacement Guide

- Cost: ~\$30-50 (i Fixit kit included).
- Health Check: Dial \*#808# in the Phone app for battery diagnostics.
- Aftermarket Batteries:
- Original (P3937): Best longevity.
- NOHON: Reliable 3rd-party option.

## 4. Camera Tricks (G Cam Mods)

- Best G Cam Port: BSG 8.1 (MGC\_8.1.101\_A9\_GV2b).
- Config File: Enables Night Sight on ultra-wide + better HDR.
- Pro Mode RAW: Shoot in 12-bit RAW for Lightroom editing.
- Buyer's Guide: New vs Used vs Refurbished
- Used (eBay/SWAPPA): \$160-220 – Check battery health (ask seller for ACCU Battery screenshots).
- New (Clearance): \$300+ – Rare, only in some markets (e.g., India).
- Red Flags:
- "Network locked" models (avoid T-Mobile variants).
- Burn-in on AMOLED (test with a gray image).
- Accessories Worth Buying in 2024

## Cases:

- OnePlus 8T Mobile SPIGEN Liquid Air: Slim protection.
- d brand Grip: Best drop protection.
- Screen Protector: Whitestone Dome Glass (UV glue for curved edges).
- Charger: Anker 735 (65W GAN) – Works with Warp Charge.
- If you prioritize:
- Software Updates: Pixel 7a.
- Performance: POCO F5.
- Design: Nothing Phone (2).
- Value: OnePlus 8T.

## 1. Hardware Teardown: Hidden Upgrade Potential

- A. Replaceable Components (DIY-Friendly)
- Battery: Swap in a Wan Tong 4500mAh (\$25) for 10% extra capacity (fits original connector)
- Thermal Paste: Reapply Thermal Grizzly KRYONAUT to reduce throttling by 3-4°C
- B. Underrated Hardware Features
- Dual Ambient Light Sensors: Enables ultra-precise auto-brightness (superior to Pixel 7)
- Hidden mm Wave Antennas: US models have unused 5G bands (enable via QPST tool)
- Pressure-Sensitive Frame: Can detect squeezes (unused by OEM, MODDER SARE hacking it)

## 2. Display Secrets: Beyond 120Hz

- OnePlus 8T Mobile True Native Resolution: 1080p@ 138Hz achievable via ADB (WM density 400 + refresh\_rate 138)
- 10-Bit Color Hack: Forces HDR10+ in all apps using set prop persist. sys .sf. native\_mode 2
- PWM-Free Mode: DC Dimming + 60Hz = flicker-free for sensitive eyes (combine with OLED Saver app)

## 3. Audio Engineering Deep Dive

- A. Hardware Limits
- DAC: Qualcomm WCD9385 (supports 32-bit/384kHz but capped by software)
- Speaker Mod: Remove foam pads inside grilles for 15% louder sound (voids warranty)

## B. Ultimate Audio Setup

- USB-C Audio: Use Helm Bolt DAC (\$59) for bit-perfect output
- Speaker Tuning: mixer\_paths.xml edit to disable volume limiter

## 4. 2024 MODDING Scene Report

- A. Kernel Development
- Neon Kernel: Overclock GPU to 905MHz (+12% performance)
- Eureka Kernel: Undervolt CPU for 20% better battery
- B. Revolutionary Mods
- Post market OS: Turns 8T into a pocket Linux tablet
- Windows 11 ARM: Boots via UEFI (no cellular support yet)

## 5. Photography: Pro-Level Workarounds

- A. G Cam 9.2 Ultimate Config
- Night Sight: 2.5s exposure handheld (uses gyro stabilization)
- Ultra-Wide Astrophotography: 32-shot stack @ 16MP
- 50MP Mode: Pixel-binning bypass via halide\_mt\_k flag
- B. Filmmaking Tricks
- OnePlus 8T Mobile LOG Profile: Install Cinema DNG LUTs for flat color grading

## 6. Network Hacks: Beyond 5G

- Carrier Aggregation: Combine Band 41+n71 for 1.8Gbps (requires rooted modem edits)
- Wi-Fi 6E: Enable 6GHz band using QC NVS Editor (hardware supports it)
- Dual SIM + SD Card: Physical mod (shave SIM tray + NANO SD adapter)

## 7. Extreme Cooling Solutions

- Peltier Mod: 5W TEC cooler (+ thermal pad) drops temps by 18°C
- Copper Shim Stack: 0.3mm shims between SoC and vapor chamber
- DIY Vapor Chamber: Replace thermal paste with liquid metal (dangerous but effective)

