

TCL P80 Pro



T852K1

DESIGN

Dimensions (HxWxD, mm):
163.34*77.69*8.26mm
Weight: 192g
Side keys: Volume key; Power key, NXPAPER key
Colors: Sunlit Gold, Midnight Blue

DISPLAY

Size: 6.83-inch OLED
Resolution: 2772 x 1280 1.5K NXPAPER
Refresh rate: 120Hz
Border/Bezel Size: (L/R/U/D) 1.38/1.38/1.48/2.36
PPI: 447
Display ratio: 19.5:9
Screen-to-body ratio: V A:OD=94.8%, AA:OD=94%
Glass type: 2.5D GG7i glass
Technology: Capacitive touchscreen
Contrast ratio: 1000000: 1
Color gamut: 100% DCI-P3
Brightness (nits): 800nits typ(Normal), 1800nits typ(HBM), 3200nits typ(Peak)
Anti-fingerprint coating: Yes

BATTERY

Capacity*: 5800mAh (Typical)*
Charger: 45W
Charging time*: 65min
DOU Value (Hours)*: 20.13H

PERFORMANCE

OS: Android 16
Chipset: MT6878V/TZA (MTK 25M/MediaTek Dimensity 7400 Elite)
CPU: 4A78 @ 2.6GHz + 4A55 @ 2.0GHz
GPU: Mali-G615

REAR CAMERA

50M (1.0um OIS) camera:
Sensor size 1/1.56", pixel size 1.0um, aperture F1.88, field of view 84°, 6P lens
8MP UW:
Sensor size 1/4.0", pixel size 1.12um, aperture F2.2, field of view 112°(108° post-crop) , 5P lens
Flicker sensor
Video capture: 4K 30fps; 1080P 60fps/30fps; 720P 60fps/30fps
Video playback: 4K 30fps; 1080P 60fps/30fps; 720P 60fps/30fps
Features: Portrait Mode, Pro Mode, Motion Mode, Pano Mode, Night Mode, Slow-Motion, Light Trace, Time-Lapse, Motion Track, Movie Mode, High pixel, Macro
Other features: Torch light

FRONT CAMERA

32MP camera:
FF, sensor size 1/3", pixel size 0.7um, aperture 2.45, field of view 81.1°, 5P lens,
Sensor: GC32E2A
Video capture & playback: 2K 30fps; 1080p 60fps/30fps; 720p 60fps/30fps
Features: Face Beautification, HDR (High Dynamic Range)

MEMORY

RAM size: 8GB+ 16GB RAM expansion (LPDDR4X)
ROM size: 256GB (UFS2.2)
microSD card: N/A

CONNECTIVITY

Bluetooth version: 5.4
Audio jack: Type C
NFC: Yes (NFC compatible with Japan Felica requirements)

NETWORK

SIM card slot: Dual Nano SIM 2PSIM or 1PSIM+eSIM

5G data:
SA mode: DL 3.27Gbps/UL 1.75Gbps
NSA mode: DL 3.67Gbps/UL 0.84Gbps
4G data: TE DL cat16:1.0Gbps/UL cat18 211Mbps
3G data: HSPA+(DL CAT24:42.2Mbps, UL CAT7:11.5Mbps)
2G data: GPRS/EDGE

5G Bands (SA):
n1/3/5/7/8/20/26/28/38/40/41/66/77/78
5G Bands (NSA):
n1/3/5/7/8/20/26/28/38/40/41/75/77/78
4G Bands:
B1/2/3/4/5/7/8/12/13/17/18/19/20/26/28/32/38/39/40/41/42/66
3G Bands: B1/B2/B4/B5/B8
GSM Bands: B2/B3/B5/B8

802.11 a/b/g/n/ac/ax, IR, WiFi Direct, Wi-Fi Display
VoLTE, VoWiFi, ViLTE

AUTHENTICATION

Face Unlock, Fingerprint (Side Mounted compatible with under display)

SENSOR

Location: with A-GPS L1, GPS+Galileo
Others: G-Sensor (accelerometer), E-compass, P sensor (ultrasonic wave sensor), L sensor (light sensor, Support RGB Sensor), Gyro, Hall Switch, Barometer (Compatible)

AUDIO AND VIDEO

Audio code support:
AAC, HE-AAC v1, HE-AAC v2, AMR, AWB, MIDI, MP3, OGG Vorbis, WAV(Alaw/Ulaw), WAV(Raw), FLAC, OPUS
Video code support:
H.263, MPEG4, H.264, H.265, VP8, VP9, AV1
HD Voice: Yes
3D Surround: DTS
Speaker: 2
Mic: 2
Supported headsets: Type C digital Headset

OTHERS

IP68, Eco design, CE/GCF/EEI/BT SIG/wifi Alliance
Certification:
SGS Natural-Light-Like Visual Comfort Certification, SGS Low Glare Performance Certification, TÜV Rheinland Full Care Display Certification
Others:
60-month Smooth Performance*,
Enhanced Drop Resistance (MIL-STD-810H Tested) *

IN THE BOX

(Plastic free packaging)
Standard accessory: TypeC C to C Cable, SIM Card PIN, Quick Guide & PSI, Paper Screen Sticker, PC Case
Optional accessory: Charger, PC case

AI Features*

AI COPY & GO
AI SMART TRANSLATOR
AI ENHANCED READING
Google Gemini & Circle to Search
AI CREATIVE WRITING
SMART VOICE MEMO 2.0

*Data comes from internal lab tests. Actual battery life may vary depending on personal usage (network strength, app use, etc.).
**5-year smooth performance* is based on TCL internal lab tests and does not guarantee lifetime lag-free performance. Actual performance may vary.
*Some features described may not be available at launch and will be updated via software updates. Availability may vary by region and model.
*Durability was tested under controlled laboratory conditions in accordance with MIL-STD-810H standards. Actual performance may vary depending on environmental conditions and usage patterns.