



TCL 50 Pro NXTPAPER 5G

Smartphone optimized for human
eyes

6.8" 120Hz FHD+ NXTPAPER Display

Upgraded NXTPAPER Technology

108MP Triple Camera

512GB ROM & 8+8GB RAM Expansion

TCL 50 Pro NXTPAPER 5G

DESIGN

Dimensions (HxWxD, mm): 167.6*75.5*7.99mm

Weight: 196g

Side keys: 3 (Volume Key & fingerprint 2-in-1 & Power Key);

NXTPAPER Key

Finish: 2D Fiber Basalt back cover (Moon gray), 2D glass Fiber back cover (Midnight blue), 2.5D NXTPAPER display

Colors: Moon Gray, Midnight Blue

DISPLAY

Size: 6.8-inch NXTPAPER hole-punch display

Resolution: FHD+ (1080*2460 resolution)

Screen-to-body ratio: VA:TP= 91% ; VA:BD= 87.5%

Glass type: 2.5D glass(NXTPAPER: +AG)

Aspect ratio: 20.5:9

Technology: Capacitive touchscreen

Contrast ratio: 1500:1 (Typ.)

Color gamut: 396 PPI, NTSC 95%(Typ.)

Brightness (nits): 550nits brightness (Typ.)

Anti-fingerprint coating: Yes

BATTERY

Capacity: 5010mAh (typical)

Charger: 33W fast charging, Type-C USB 2.0

Charging time (Hours): 1.7h

DOU Value (Hours): 16h, Maximum 26 days under Max Ink Mode*

PERFORMANCE

OS: Android™ 14 ([support OS upgrade to Android 16](#))

Chipset: Dimensity 6300

CPU: Octa-Core, 2x A76+6x A55

GPU: G57 MC2

REAR CAMERA

108MP main camera:

PDAF, sensor size 1/1.67", pixel size 0.64μm, aperture F1.75, field of view 83.62°, 6P lens

8MP ultra-wide camera:

FF sensor size 1/4", pixel size 1.12μm, aperture F2.2, field of view 120°, 5P lens

2MP macro camera:

FF, sensor size 1/5", pixel size 1.75μm, aperture F2.4, field of view 88.9°, 3P lens

Video capture: 1080P @30FPS

Video playback: 1080P @30FPS

Features: MFNR, Full HDR, AI scene detection, night mode,

Bokeh Zoom

Other features: Torch light

FRONT CAMERA

32MP camera:

FF, sensor size 1/3.45", pixel size 0.64μm, aperture F2.0, field of view 71.5°, 5P lens

Video capture: 1080p@30fps

Video playback: 1080p@30fps

Features: Full HDR, Face Beautification

MEMORY

RAM size: 8GB (+8GB RAM expansion)

ROM size: 512GB

Available memory: 486GB

microSD card: Supports MicroSD card up to 2TB

*Actual internal storage available may depend on pre-installed software.

CONNECTIVITY

Bluetooth version: 5.3

Audio jack: 3.5mm

NFC: Yes

NETWORK

Sim card slots

Dual Sim: Sim1 + eSIM

5G data: NSA : DL:2.74Gbps UL: 0.73Gbps

SA : DL: 3.27Gbps UL: 625Mbps

4G data: cat 7: DL cat 13; UL 18

3G data: HSPA+ (DL CAT24: 42.2Mbps, UL CAT7: 11.5Mbps)

2G data: GPRS:EDGE

5G Bands:

n1/3/5/7/8/20/26/28/38/40/41/48/77/78

4G Bands:

B1/3/4/5/7/8/17/20/26/28/32/38/40/41/42

3G Bands:

B1/2/4/5/8

2G Bands:

850/900/1800/1900

802.11a/b/g/n/ac, 2.4GHz&5GHz, Wi-Fi direct, Wi-Fi display
VoLTE, VoWiFi

AUTHENTICATION

Face Unlock, Fingerprint sensor (Side)

SENSOR

Location: GPS/Glonass/Beidou/Galileo/with A-GPS

Other: Accelerometer (G sensor), Proximity sensor, Light Sensor,

Barometer, E-Compass, Gyro, Hall Switch

AUDIO AND VIDEO

Audio playback format:

AAC, HE-AAC v1, HE-AAC v2, AMR, AWB, MIDI, MP3, OGG
VORBIS, WAV(ALaw/ULaw), WAV(Raw), FLAC, OPUS

Video code support:

H263, MPEG4, H264, H265n VP8, VP9, AV1

Speaker: 2

Dual-mic Noise cancellation: Yes

Supported headsets: LRGM

Features: 3D Boom sound + DTS effect

IN THE BOX

Fast charger 33W, Type C 2.0 Cable, SIM Card PIN, Quick
Guide & PSI, Warp Sticker

Optional: Flip cover with integrated T pen