

# iPhone 13 512GB (PRODUCT) RED



30-12-2024

|                            |                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| SKU                        | MLQF3QN/A                                                                                                                                      |
| Product Description:       | Apple iPhone 13 - (PRODUCT) RED - red - 5G smartphone - 512 GB - GSM                                                                           |
| Product Type:              | 5G smartphone                                                                                                                                  |
| Manufacturer Model Number: | A2633                                                                                                                                          |
| Display:                   | OLED display - 2532 x 1170 pixels - 6.1" - 460 ppi - Super Retina XDR Display - HDR - fingerprint-resistant oleophobic coating, Ceramic Shield |
| Processor:                 | Apple A15 Bionic (6-core)                                                                                                                      |
| Memory:                    | 512 GB                                                                                                                                         |
| Operating System:          | iOS 15                                                                                                                                         |

## General

|                            |                                    |
|----------------------------|------------------------------------|
| Product Type:              | Smartphone                         |
| Manufacturer Model Number: | A2633                              |
| Form Factor:               | Touch                              |
| Protection:                | Dustproof, splashproof, waterproof |
| Width:                     | 71.5 mm                            |
| Depth:                     | 7.65 mm                            |
| Height:                    | 146.7 mm                           |
| Weight:                    | 173 g                              |
| Body Colour:               | Red                                |
| Body Material:             | Aluminium, glass                   |
| SAR Value:                 | 0.99 W/kg (body), 0.98 W/kg (head) |

## Cellular

|                              |                    |
|------------------------------|--------------------|
| Technology:                  | WCDMA (UMTS) / GSM |
| Mobile Broadband Generation: | 5G                 |
| Service Provider:            | Not specified      |
| Operating System:            | iOS 15             |
| Intelligent Assistant:       | Siri               |

## Environmental Parameters

|                                |                          |
|--------------------------------|--------------------------|
| Max Depth of Water Resistance: | 6 m                      |
| Min Operating Temperature:     | 0 °C                     |
| Max Operating Temperature:     | 35 °C                    |
| Humidity Range Operating:      | 5 - 95% (non-condensing) |

## Manufacturer Warranty

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Service & Support: | Limited warranty - 1 year   Technical support - consulting - 90 days |
|--------------------|----------------------------------------------------------------------|

## Miscellaneous

|                       |                                   |
|-----------------------|-----------------------------------|
| Compliant Standards:  | IEC 60529 IP68, HEARING AID M3/T4 |
| Included Accessories: | Lightning to USB-C cable          |

## Battery

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Technology:               | Lithium Ion                                                     |
| Fast Charging Technology: | Apple fast charging technology, Apple MagSafe wireless charging |
| Wireless Charging:        | Yes                                                             |

Cellular

|                     |                                       |
|---------------------|---------------------------------------|
| Navigation:         | GPS, GLONASS, BeiDou, Galileo, QZSS   |
| SIM Card Type:      | Nano SIM, Electronic SIM card (e-SIM) |
| SIM Card Qty:       | Dual-SIM                              |
| Payment Technology: | Apple Pay                             |
| Input Device:       | Multi-touch                           |

Communications

|                     |                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Transmission:  | EDGE, HSPA+, DC-HSDPA, VoLTE, FDD-LTE, TDD-LTE, VoWiFi, Gigabit LTE, LAA, 5G NR FR1                                                                                                                                                                                                                                           |
| 2G Band:            | 850 GSM, 900 GSM, 1800 GSM, 1900 GSM                                                                                                                                                                                                                                                                                          |
| 3G UMTS Band:       | Band 1, Band 2, Band 5, Band 8, Band 10                                                                                                                                                                                                                                                                                       |
| 3G UMTS Frequency:  | 2100, 1900, 850, 900, 1700 EAWS                                                                                                                                                                                                                                                                                               |
| 4G LTE Band:        | Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 12, Band 13, Band 17, Band 18, Band 19, Band 20, Band 25, Band 26, Band 28, Band 30, Band 32, Band 34, Band 38, Band 39, Band 40, Band 41, Band 42, Band 46, Band 48, Band 66                                                                                    |
| 4G LTE Frequency:   | FDD 2100, FDD 1900 PCS, FDD 1800+, FDD 1700 - 2110 AWS, FDD 850, FDD 2600, FDD 900, FDD 700a, FDD 700c, FDD 700b, FDD 800 lower, FDD 800 upper, FDD 800 DD, FDD 1900+, FDD 850+, FDD 700 APT, FDD 2300 WCS, FDD 1500 L, TDD 2000, TDD 2600, TDD 1900, TDD 2300, TDD 2500, TDD 3500, TDD 5150, TDD 3600, FDD 1700 - 2110 AWS-3 |
| 5G NR Band:         | N1, n2, n3, n5, n7, n8, n20, n28, n38, n41, n66, n77, n78, n79, n40, n25, n12, n48, n30                                                                                                                                                                                                                                       |
| 5G NR Frequency:    | FDD 2100, FDD 1900PCS, FDD 1800, FDD 850, FDD 2600, FDD 900, FDD 800, FDD 700APT, TDD TD 2600, TDD TD 2500, FDD AWS-3, TDD TD 3700, TDD TD 3500, TDD TD 4500, TDD 2300, FDD 1900, n12, TDD 3500, FDD 2300                                                                                                                     |
| Wireless Interface: | NFC, Bluetooth 5.0, IEEE 802.11ax, Ultra-Wideband (UWB)                                                                                                                                                                                                                                                                       |

Battery

|                              |                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Wireless Charging Standards: | Qi                                                                                                        |
| Run Time Details:            | Playback (video): up to 19 hrs ; Playback (streamed video): up to 15 hrs ; Playback (audio): up to 75 hrs |

Connections

|                 |           |
|-----------------|-----------|
| Connector Type: | Lightning |
|-----------------|-----------|

Display

|                         |                                                          |
|-------------------------|----------------------------------------------------------|
| Type:                   | OLED display                                             |
| Technology:             | Super Retina XDR Display                                 |
| Diagonal Size:          | 6.1"                                                     |
| Display Resolution:     | 2532 x 1170 pixels                                       |
| Pixel Density:          | 460 ppi                                                  |
| Max Brightness:         | 800 cd/m²                                                |
| HDR:                    | Yes                                                      |
| HDR Technology:         | HDR10                                                    |
| Enhancement Technology: | Dolby Vision                                             |
| Contrast Ratio:         | 2000000:1                                                |
| Protection:             | Fingerprint-resistant oleophobic coating, Ceramic Shield |

Phone Features

Phone Functions: Speakerphone, voice control, call timer, conference call, flight mode, voice dialing, vibrating alert

Sensors: Accelerometer, ambient light sensor, proximity sensor, 3-axis gyro sensor, digital compass, barometer, magnetometer

Security Devices: Face recognition

Security Technology: Face ID

Additional Features: AirDrop function, Audio zoom function, MIMO technology, Wi-Fi Calling, iBeacon microlocation, QuickType keyboard, Night Shift, Apple TV support (2nd or later), AirPlay 2 wireless streaming, FaceTime audio, Apple MagSafe, Express Transit cards with power reserve, 4K HDR AirPlay Mirroring, FaceTime HD (1080p), RTT/TTY compatible, Voice isolation, 16-core Neural Engine, Zoom with rear-facing camera, Wide Spectrum microphone mode, SharePlay, Screen sharing, Portrait mode in FaceTime video

Media Player

Supported Digital Audio Standards: Audible, MP3, FLAC, Apple Lossless, AC-3, AAC-LC, LPCM, HE-AAC, Audible AAX, Audible AAX+, protected AAC, EAC3, HE-AAC v2

Supported Digital Video Standards: M-JPEG, H.264, HEVC, MPEG-4 Part 2, HEIF

Video Enhancements: HDR with Dolby Vision, HDR10, Hybrid Log-Gamma (HLG)

Sound Enhancements: Dolby Digital Plus sound, Dolby Atmos sound technology, Dolby Digital sound, Spatial audio

Processor

Type: Apple A15 Bionic

Processor Core Qty: 6-core

Memory

Internal Memory Capacity: 512 GB

Display

Display Languages: Danish, Hindi, Hebrew, Hungarian, Czech, Croatian, Indonesian, Thai, Slovak, Chinese (traditional), Chinese (simplified), Vietnamese, Ukrainian, Brazilian Portuguese, English, German, French, Italian, Norwegian, Portuguese, Polish, Finnish, Swedish, Russian, Spanish, Dutch, Greek, Turkish, Arabic, Romanian, Catalan, Japanese, Korean, Malay, UK English, US English, Australian English, French Canadian, Spanish (Latin American), Chinese (Traditional, Hong Kong), Spanish (Mexican)

Features: True Tone display, Edge-to-Edge screen, Wide colour display (P3), Haptic touch, Hybrid Log-Gamma (HLG), 1200 nits max brightness (HDR)

Second Camera

Sensor Resolution: 12 Megapixel

Lens Type: Ultra wide-angle lens

Lens Aperture: F/2.4

Lens Element Qty: 5-element

Field of View (FoV): 120 degree(s)

Features: Lens correction

Main Camera

Sensor Resolution: 12 Megapixel

Optical Image Stabiliser: Sensor-shift OIS (Optical Image Stabilisation)

Lens Type: Wide-angle lens

Lens Aperture: F/1.6

Lens Construction: 7-element

Focus Adjustment: Automatic

Optical Zoom: 2x

Digital Zoom: 5x



## Main Camera

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special Effects:   | Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono, Photographic Styles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Camera Modes:      | Burst mode, Panorama, night mode, low-light shots, Live Photos, Portrait mode with advanced bokeh and Depth Control, Portrait Lighting, wide colour capture for photos and Live Photos, Cinema mode, Time Lapse (Night mode)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Face Detection:    | Face recognition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| HDR Mode:          | Smart HDR 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Light Source:      | True Tone LED flash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Video Resolutions: | 1920 x 1080 (1080p) at 30 fps, 1920 x 1080 (1080p) at 60 fps, 1280 x 720 (720p) at 30 fps, Slo-mo video 1920 x 1080 (1080p) at 120 fps, 3840 x 2160 (4K) at 30 fps, 3840 x 2160 (4K) at 60 fps, 3840 x 2160 (4K) at 24 fps, 1920 x 1080 (1080p) at 25 fps, Slo-mo video 1920 x 1080 (1080p) at 240 fps, 3840 x 2160 (4K) at 25 fps                                                                                                                                                                                                                                                                                                                                    |
| Features:          | Sapphire crystal lens cover, Cinematic video stabilisation, Cinematic video stabilisation, Playback zoom, geotagging, Stereo Recording, Continuous autofocus video, 8MP still photos recording 4K video, Time-lapse video with stabilisation, Slow Sync, Advanced red-eye correction, HEIF image capture, Audio zoom, 100% Focus Pixels, Digital zoom up to 3x for video, QuickTake video, HEVC (High Efficiency Video coding), Deep Fusion, Sensor-shift optical image stabilisation for video, Memories automatic slideshow, Dolby Vision HDR video recording up to 4K at 60 fps, Cinematic mode for recording videos with shallow depth of field (1080p at 30 fps) |

## Front Camera

|                    |              |
|--------------------|--------------|
| Sensor Resolution: | 12 Megapixel |
| Lens Aperture:     | F/2.2        |
| HDR Mode:          | Smart HDR 4  |

## Front Camera

|                    |                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special Effects:   | Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono, Photographic Styles                                                                                                                                                                                                                                        |
| Face Detection:    | Face recognition                                                                                                                                                                                                                                                                                                       |
| Camera Modes:      | Burst mode, night mode, Live Photos, Portrait mode with advanced bokeh and Depth Control, Portrait Lighting, wide colour capture for photos and Live Photos, Time Lapse (Night mode)                                                                                                                                   |
| Video Resolutions: | 1920 x 1080 (1080p) at 30 fps, 1920 x 1080 (1080p) at 60 fps, Slo-mo video 1920 x 1080 (1080p) at 120 fps, 3840 x 2160 (4K) at 30 fps, 3840 x 2160 (4K) at 60 fps, 3840 x 2160 (4K) at 24 fps, 1920 x 1080 (1080p) at 25 fps, 3840 x 2160 (4K) at 25 fps                                                               |
| Light Source:      | Retina Flash                                                                                                                                                                                                                                                                                                           |
| Features:          | Auto image stabilisation, Animoji, Memoji, TrueDepth camera, Cinematic video stabilisation, QuickTake video, Time-lapse video with stabilisation, Lens correction, Deep Fusion, Cinematic mode for recording videos with shallow depth of field (1080p at 30 fps), Dolby Vision HDR video recording up to 4K at 60 fps |

