



## **REQUEST FOR QUOTATIONS (FOR GOODS)**

**PROC # MRA/PHONES/30/08/2024**

To: **Eligible bidder**

Date: **30<sup>th</sup> August, 2024**

Malawi Revenue Authority invites you to submit your quotation for the goods described herein. Partial Quotations may be rejected, and the Purchaser reserves the right to award a contract for selected items only. Any resulting order shall be subject to the Government of Malawi General Conditions of Contract for Local Purchase Orders (available on request) except where modified by this Request for Quotations.

### **SECTION A: QUOTATION REQUIREMENTS:**

1) Description of Supply and Delivery

**Supply and Delivery of Android phones and iPhones**

- 2) Quotation prices should be based on: for goods supplied from within Malawi; EXW – insured and delivered to Main Warehouse Ginnery Corner **or** for goods supplied from outside of Malawi; CIP to MRA Main warehouse, Ginnery Corner
- 3) The delivery period required is **7 days** from date of order.
- 4) Quotations must be valid for **45 days** from the date for receipt given below.
- 5) The warranty/guarantee offered shall be **12 months**.
- 6) Quotations and supporting documents as specified in Section B must be marked with the Procurement Number given above, and indicate your acceptance of the terms and conditions.
- 7) Quotations must be deposited in the **RFQ Box** at the **Reception on 2<sup>nd</sup> Floor at Msonkho House in Blantyre**, in sealed envelopes no later than: **Tuesday 03<sup>rd</sup> September, 2024**
- 8) Quotations must be returned to:

**IPDC Chairperson**  
**Malawi Revenue Authority**  
**Private Bag 247**  
**Blantyre**

- 9) The attached Schedule of Requirements at Section C, details the items to be purchased. You are requested to quote your delivered price for these items by completing and returning Sections B and C.
- 10) Quotations that are responsive, qualified and technically compliant will be ranked according to price and a domestic preference of 20 percent will be applied for black indigenous Malawians. Award of contract will be made to the lowest priced quotation by item or by total through the issue of a Local Purchase Order.

Signed: .....

Name: **Miriam Jere**

Title/Position: **Head Supply Chain Management**

For and on behalf of the Purchaser

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Your quotation is to be returned on this Form by completing and returning Sections B and C including any other information/certification required within this RFQ.

### SECTION B: QUOTATION SUBMISSION SHEET

- 1) Currency of Quotation: Malawi Kwacha
- 2) Delivery period offered: ..... days/weeks/months from date of Purchase Order.
- 3) The validity period of this Quotation is: ..... days from the date for receipt of Quotations.
- 4) Warranty period (where applicable):..... months.
- 5) We attach the following documents:
  - i. **Section C of the Request for Quotations completed and signed;**
  - ii. **A copy of our valid Annual Tax Clearance Certificate**
  - iii. **Copy of National Registration Identity Card**
  - iv. **MSME Registration Certificate**
  - v. **Valid PPDA Certificate**
- 6) We confirm that our quotation is based on the terms and conditions stated in your Request for Quotations referenced above, and that any resulting contract will be subject to the Government of Malawi General Conditions of Contract for Local Purchase Orders.
- 7) We confirm that the prices quoted are fixed and firm for the duration of the validity period and will not be subject to revision or variation.

#### Authorised By:

Signature: \_\_\_\_\_ Name: \_\_\_\_\_  
Position: \_\_\_\_\_ Date: \_\_\_\_\_  
(DD/MM/YY)

Authorised for and on behalf of:

Company: \_\_\_\_\_  
Address: .....  
.....

*If any additional documentation is attached to your quotation, a signature and authorisation at Section B and Section C is still required as confirmation that the terms and conditions of this RFQ prevail over any attachments. If the Quotation is not authorised in Section B and Section C, the quotation may be rejected.*

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### SECTION C: SCHEDULE OF REQUIREMENTS (TO BE PRICED BY BIDDER)

Lot	Description of Goods (Attach detailed specification if necessary)	Unit of Measure	Quantity	Delivered Unit Price Kwacha (Taxes inclusive)	Delivered Total Price Kwacha (Taxes inclusive)
1	Android phones	Each	8		
2	iPhones	Each	8		
				<b>Sub-Total</b>	
				<b>VAT 16.5%</b>	
				<b>PPDA Levy (1%)</b>	
				<b>Total Bid Price</b>	

**Note:**

*Specifications for the laptops have been attached in subsequent pages*

**Authorised By:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

*(DD/MM/YY)*

Authorised for and on behalf of:

Company: \_\_\_\_\_

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## LOT 1A – ANDROID PHONE A

	Technical Specification of items required including applicable standards	Man dator y	State Compl specifi
<b>Operating System</b>	Android 14	<b>M</b>	
<b>Display</b>	<ul style="list-style-type: none"> <li>• Super Actua display</li> <li>• Full-screen 6.7-inch (170-millimetre) display</li> <li>• 20:9 aspect ratio</li> <li>• 1344 x 2992 resolution</li> <li>• LTPO OLED</li> <li>• 489 PPI</li> <li>• Smooth Display (1–120 Hz)</li> <li>• Corning® Gorilla® Glass Victus® 2 cover glass</li> <li>• Always-on display with At a Glance and Now Playing</li> <li>• Up to 1,600 nits (HDR) and up to 2,400 nits (peak brightness)</li> <li>• &gt;1,000,000:1 contrast ratio</li> <li>• HDR support</li> <li>• Full 24-bit depth for 16 million colours</li> </ul>	<b>M</b>	
<b>Dimensions and weight</b>	<ul style="list-style-type: none"> <li>• 6.4 height x 3.0 width x 0.3 depth (in), 162.6 height x 76.5 width x 8.8 depth (mm)</li> <li>• 213 g, 7.5 oz</li> </ul>	<b>M</b>	
<b>Battery and charging</b>	<ul style="list-style-type: none"> <li>• 24+ hours battery life</li> <li>• Up to 72-hour battery life with Extreme Battery Saver</li> <li>• Typical 5050 mAh<sup>6</sup> (minimum 4950 mAh)</li> <li>• Fast charging – up to 50% charge in about 30 minutes – using Google 30 W USB-C® Charger with USB-PD 3.0 (PPS) sold separately</li> <li>• Fast wireless charging (Qi-certified)</li> <li>• Battery Share</li> </ul>	<b>M</b>	
<b>Memory and storage</b>	<ul style="list-style-type: none"> <li>• 12 GB LPDDR5X RAM</li> <li>• 128 GB UFS 3.1 storage</li> </ul>	<b>M</b>	
<b>Processor</b>	<ul style="list-style-type: none"> <li>• Google Tensor G3</li> <li>• Titan M2 security coprocessor</li> </ul>	<b>M</b>	
<b>Security</b>	<ul style="list-style-type: none"> <li>• VPN by Google One</li> <li>• End-to-end security designed by Google</li> <li>• Multi-layer hardware security: Tensor security core, Titan M2 security chip and Trusty (Trusted Execution Environment)</li> <li>• Seven years of OS, security and Feature Drop updates</li> <li>• Anti-malware and anti-phishing protection, including support for passkeys</li> <li>• Automatic security checks and Security and Privacy Hub</li> <li>• Camera and mic toggles</li> <li>• Private Compute Core</li> <li>• Android System Intelligence</li> <li>• Android Messages end-to-end encryption and Android backup encryption</li> </ul>	<b>M</b>	
<b>Authentication</b>	<ul style="list-style-type: none"> <li>• Fingerprint Unlock with under-display fingerprint sensor</li> <li>• Face Unlock</li> <li>• Pattern, PIN, password</li> </ul>	<b>M</b>	
<b>Security and OS updates</b>	Seven years of OS, security and Feature Drop updates	<b>M</b>	
<b>Rear camera</b>	<ul style="list-style-type: none"> <li>• 50 MP Octa PD wide camera</li> <li>• 1.2 µm pixel width</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>• <i>f</i>/1.68 aperture</li> <li>• 82° field of view</li> <li>• 1/1.31" image sensor size</li>   <li>• 48 MP Quad PD ultrawide camera with auto-focus</li> <li>• 0.8 µm pixel width</li> <li>• <i>f</i>/1.95 aperture</li> <li>• 125.5° field of view</li> <li>• Lens correction</li>   <li>• 48 MP Quad PD telephoto camera</li> <li>• 0.7 µm pixel width</li> <li>• <i>f</i>/2.8 aperture</li> <li>• 21.8° field of view</li> <li>• 5x optical zoom</li> <li>• Super Res Zoom up to 30x</li>   <li>• Multi-zone LDAF (laser detect auto-focus) sensor</li> <li>• Spectral and flicker sensor</li> <li>• Optical + electronic image stabilisation on wide and telephoto</li> </ul>		
<b>Front camera</b>	<ul style="list-style-type: none"> <li>• 10.5 MP dual PD selfie camera</li> <li>• 1.22 µm pixel width</li> <li>• <i>f</i>/2.2 aperture</li> <li>• Auto-focus</li> <li>• 95° ultrawide field of view</li> </ul>	<b>M</b>	
<b>Camera features</b>	<ul style="list-style-type: none"> <li>• Pro controls</li> <li>• High-resolution images</li> <li>• Ultra HDR</li> <li>• Magic Editor16</li> <li>• Best take17</li> <li>• Macro Focus</li> <li>• Magic Eraser17</li> <li>• Photo Unblur17</li> <li>• Motion mode</li> <li>• Real Tone</li> <li>• Face Unblur</li> <li>• Panorama</li> <li>• Manual white balancing</li> <li>• Locked Folder</li> <li>• Night Sight</li> <li>• Astrophotography</li> <li>• Top Shot</li> <li>• Portrait mode</li> <li>• Portrait Light</li> <li>• Super Res Zoom</li> <li>• Motion auto-focus</li> <li>• Frequent Faces</li> <li>• Dual exposure controls</li> <li>• Live HDR+</li> </ul>	<b>M</b>	
<b>Video</b>	<p><b>Rear camera</b></p> <ul style="list-style-type: none"> <li>• 4K video recording at 24 FPS, 30 FPS, 60 FPS</li> <li>• 1080p video recording at 24 FPS, 30 FPS, 60 FPS</li> <li>• Dual exposure on wide camera13</li> </ul>	<b>M</b>	

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	<p><b>Front camera</b></p> <ul style="list-style-type: none"> <li>• 4K video recording at 24 FPS, 30 FPS, 60 FPS</li> <li>• Audio Magic Eraser</li> <li>• Video Boost</li> <li>• Night Sight Video</li> <li>• Macro Focus Video</li> <li>• 10-bit HDR video</li> <li>• Cinematic Blur</li> <li>• Cinematic Pan</li> <li>• Slo-mo video support up to 240 FPS</li> <li>• 4K timelapse with stabilisation</li> <li>• Astrophotography timelapse</li> <li>• Optical image stabilisation</li> <li>• Fused Video Stabilisation</li> <li>• 4K Cinematic Pan video stabilisation</li> <li>• 4K locked video stabilisation</li> <li>• 1080p active video stabilisation</li> <li>• Digital zoom up to 20x</li> <li>• Video formats: HEVC (H.265), AVC (H.264)</li> </ul> <p><b>Audio</b></p> <ul style="list-style-type: none"> <li>• Audio Magic Eraser18</li> <li>• Stereo recording</li> <li>• Speech enhancement</li> <li>• Wind noise reduction</li> <li>• Audio zoom</li> </ul>		
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• Proximity sensor</li> <li>• Ambient light sensor</li> <li>• Accelerometer</li> <li>• Gyrometer</li> <li>• Magnetometer</li> <li>• Barometer</li> <li>• Temperature sensor</li> </ul>	<b>M</b>	
<b>Buttons and ports</b>	<ul style="list-style-type: none"> <li>• USB Type-C@ 3.2</li> <li>• Power button</li> <li>• Volume controls</li> </ul>	<b>M</b>	
<b>SIMs</b>	Dual SIM (single nano-SIM and eSIM19)	<b>M</b>	
<b>Media and audio</b>	<ul style="list-style-type: none"> <li>• Stereo speakers</li> <li>• Three microphones</li> <li>• Noise suppression</li> <li>• Spatial audio</li> </ul>	<b>M</b>	
<b>Connectivity and location</b>	<ul style="list-style-type: none"> <li>• Wi-Fi 7 (802.11be) with 2.4 GHz + 5 GHz + 6 GHz, 2x2+2x2 MIMO</li> <li>• Bluetooth® v5.3 with dual antennas for enhanced quality and connection</li> <li>• Ultra-wideband chip for accurate ranging and spatial orientation21</li> <li>• NFC</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>• Google Cast</li> <li>• Dual-band GNSS</li> <li>• GPS, GLONASS, Galileo, QZSS, BeiDou</li> </ul>		
<b>Network</b>	<ul style="list-style-type: none"> <li>• 5G sub-6 GHz23 Model GC3VE</li> <li>• GSM/EDGE: Quad-band (850, 900, 1800, 1900 MHz)</li> <li>• UMTS/HSPA+/HSDPA: Bands 1,2,4,5,6,8,19</li> <li>• LTE: Bands B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/32/38/40/41/42/46/48/66/71</li> <li>• 5G sub-623: Bands n1/2/3/5/7/8/12/20/25/28/30/38/40/41/66/71/75/76/77/78</li> <li>• eSIM</li> <li>• 5G mmWave + Sub 6GHz23 Model G1MNVGSM/EDGE: Quad-band (850, 900, 1800, 1900 MHz)</li> <li>• UMTS/HSPA+/HSDPA: Bands 1,2,4,5,6,8,19</li> <li>• LTE: Bands B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/38/39/40/41/46/48/66/71</li> <li>• 5G sub-623: Bands n1/2/3/5/7/8/12/20/25/26/28/29/30/38/40/41/48/66/70/71/77/78</li> <li>• 5G mmWave23: Bands n257/258/260/261</li> <li>• eSIM</li> </ul>	<b>M</b>	
<b>Hearing aid compatibility</b>	Hearing aid compatible	<b>M</b>	
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Scratch-resistant Corning® Gorilla® Glass Victus® cover glass</li> <li>• Edgeless Corning® Gorilla® Glass Victus® matte back with polished aluminium frame</li> <li>• IP68 dust and water resistance</li> <li>• Fingerprint-resistant coating</li> <li>• 100% recycled content in aluminium housing</li> <li>• At least 18% recycled materials based on product weight.</li> </ul>	<b>M</b>	

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## LOT 1B – ANDROID PHONE B - ITEL

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance of specification offered
Display	6.78" AMOLED Curved Screen	M	
Battery Capacity	5000mAh	M	
Memory	128+8 (4+4)GB	M	
Front Camera	32MP	M	
Rear Camera	50MP	M	
Sensor	In-display Fingerprint Sensor	M	
System	itel OS 13	M	



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## LOT 1C – ANDROID PHONE C - TECNO

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance of specification offered
<b>Operating System</b>	Android 14	<b>M</b>	
<b>Processor</b>	MTK G99 Ultimate	<b>M</b>	
<b>Network</b>	<ul style="list-style-type: none"> <li>• 2G</li> <li>• 3G</li> <li>• 4G</li> </ul>	<b>M</b>	
<b>Dimension</b>	164.65*75.04*7.55mm	<b>M</b>	
<b>Display</b>	6.78" FHD + AMOLED 120Hz Refresh Rate	<b>M</b>	
<b>Resolution</b>	1080*2436	<b>M</b>	
<b>Camera</b>	<ul style="list-style-type: none"> <li>• 32MP Front Camera with Dual Flash</li> <li>• 108MP Main Camera with Four Flash</li> <li>• 2MP Macro Camera</li> </ul>	<b>M</b>	
<b>Sound</b>	Stereo Dual Speakers	<b>M</b>	
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• WIFI 2.4+5GHz</li> <li>• BT 5.2</li> <li>• GNSS</li> <li>• FM</li> <li>• Type-C</li> <li>• NFC</li> </ul>	<b>M</b>	
<b>Sensor</b>	<ul style="list-style-type: none"> <li>• G-Sensor</li> <li>• E-compass</li> <li>• Gyroscope</li> <li>• Ambient Light Sensor</li> <li>• Proximity Sensor</li> <li>• Fingerprint Sensor</li> </ul>	<b>M</b>	
<b>Battery Capacity</b>	5000mAh(typ)+33W	<b>M</b>	

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### LOT 1D – ANDROID PHONE D - REDMI

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance specification offered
<b>Processor</b>	Snapdragon® 685 6nm manufacturing process technology CPU: Octa-core CPU, up to 2.8GHz GPU: Adreno 610	<b>M</b>	
<b>Storage &amp; RAM</b>	8GB+128GB LPDDR4X + UFS2.2	<b>M</b>	
<b>Dimensions</b>	Height: 162.24mm Width: 75.55mm Thickness: 7.97mm Weight: 188.5g	<b>M</b>	
<b>Display</b>	6.67" AMOLED display Refresh rate: Up to 120Hz Brightness: 1800 nits peak brightness Contrast ratio: 5,000,000:1 100% DCI-P3 wide color gamut Resolution: 2400 x 1080 Corning® Gorilla® Glass 3 Sunlight display TÜV Rheinland Low Blue Light Certification (Hardware solution)   TÜV Rheinland Circadian Friendly Certification   TÜV Rheinland Flicker Free Certification   Reading mode	<b>M</b>	
<b>Rear Camera</b>	108MP+8MP+2MP triple camera 108MP main camera 0.64µm, 9in1 1.92µm f/1.75 8MP ultra-wide camera f/2.22MP macro camera Rear camera video recording 1080p at 30fps 720p at 30fps	<b>M</b>	
<b>Front Camera</b>	16MP front camera f/2.4 Front camera video recording 1080p at 30fps 720p at 30fps	<b>M</b>	
<b>Battery &amp; Charging</b>	5000mAh (typ) Supports 33W fast charging 33W fast charger in box USB-C	<b>M</b>	
<b>Security</b>	In-screen fingerprint sensor AI Face Unlock	<b>M</b>	
<b>NFC</b>	Yes	<b>M</b>	
<b>Network &amp; Connectivity</b>	SIM 1 + Hybrid (SIM or MicroSD) Network bands Supports 4G / 3G / 2G 2G: GSM: 850 900 1800 1900MHz 3G: WCDMA:1/5/8 4G: LTE FDD:1/3/5/7/8/20/28 4G: LTE TDD:38/40/41	<b>M</b>	

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	Wireless Networks Bluetooth 5.1 Wi-Fi Protocol: 802.11a/b/g/n/ac		
<b>Navigation &amp; Positioning</b>	GPS: L1   GLONASS: G1   BDS: B1I   Galileo E1	<b>M</b>	
<b>Audio</b>	Dual speakers Dolby Atmos® 3.5mm headphone jack	<b>M</b>	
<b>Splash, Water and Dust Resistant</b>	IP54	<b>M</b>	
<b>Sensors</b>	Proximity sensor   Ambient light sensor   Accelerometer   Electronic compass   IR blaster   Gyroscope	<b>M</b>	
<b>Operating System</b>	MIUI 14	<b>M</b>	

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### LOT 1E – ANDROID PHONE E - SAMSUNG

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance specification offered
<b>Battery</b>	4,000 mAh	<b>M</b>	
<b>Wireless PowerShare</b>	Yes	<b>M</b>	
<b>Storage</b>	Internal memory & storage: 8GB RAM / 128GB	<b>M</b>	
<b>Processor</b>	Snapdragon 8 Gen 3 Mobile Platform for Galaxy	<b>M</b>	
<b>RAM</b>	8GB	<b>M</b>	
<b>Cellular &amp; Wireless</b>	5G (sub6, mmW).	<b>M</b>	
<b>Camera Resolution</b>	Rear: 50MP Wide, 12MP Ultra Wide, 10MP Tele 3x Optical Zoom, 30x Space Zoom. Front: 12MP Wide	<b>M</b>	
<b>Ultra Wide Camera</b>	Yes	<b>M</b>	
<b>Scene Optimizer</b>	Yes	<b>M</b>	
<b>Aperture</b>	Dual Aperture Rear: 50MP (f/1.8), 12MP (f/2.2), 10MP (f/2.4) Front: 12MP (f/2.2)	<b>M</b>	
<b>Flaw Detection</b>	Yes	<b>M</b>	
<b>Screen &amp; Display</b>	6.2" Dynamic AMOLED 2X Display	<b>M</b>	
<b>Ultrasonic Fingerprint Scanner</b>	Yes	<b>M</b>	
<b>Circle to Search</b>	Yes	<b>M</b>	
<b>Live Translate</b>	Yes	<b>M</b>	
<b>Note Assist</b>	Yes	<b>M</b>	
<b>Generative Edit</b>	Yes	<b>M</b>	

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## LOT 1F – ANDROID PHONE F

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance of specification offered
<b>Operating System</b>	Android	<b>M</b>	
<b>Display</b>	<ul style="list-style-type: none"> <li>• 10.95" display</li> <li>• LCD</li> <li>• 2560 x 1600 resolution</li> <li>• 276 pixels per inch density</li> <li>• 16:10 aspect ratio</li> <li>• 500 nits brightness (typical)</li> <li>• Anti-smudge coating</li> <li>• Touchscreen display</li> <li>• Supports US1 2.0 stylus pens</li> <li>• Full 24-bit depth for 16 million colours</li> </ul>	<b>M</b>	
<b>Dimensions and weight</b>	<ul style="list-style-type: none"> <li>• 493 g (17.39 oz)</li> <li>• 10.2 width x 6.7 height x 0.3 depth (in)</li> <li>• 258 width x 169 height x 8.1 depth (mm)</li> </ul>	<b>M</b>	
<b>Battery and charging</b>	<ul style="list-style-type: none"> <li>• Up to 12 hours of video streaming<sup>3</sup></li> <li>• Built-in 27 watt-hour battery</li> <li>• Charging via a Charging Speaker Dock or USB-C® charger (sold separately)</li> </ul>	<b>M</b>	
<b>Memory and storage</b>	<ul style="list-style-type: none"> <li>• 8 GB LPDDR5 RAM</li> <li>• 256 GB UFS 3.1 storage</li> </ul>	<b>M</b>	
<b>Processor</b>	<ul style="list-style-type: none"> <li>• Google Tensor G2</li> <li>• Titan M2 security coprocessor</li> </ul>	<b>M</b>	
<b>Security</b>	<ul style="list-style-type: none"> <li>• End-to-end security designed by Google</li> <li>• Multi-layer hardware security: Tensor security core, certified Titan M2 security chip and Trusty (trusted execution environment)</li> <li>• Minimum five years of security updates<sup>5</sup></li> <li>• Anti-phishing and anti-malware protection</li> <li>• Automatic security checks and privacy controls with Safety Centre</li> <li>• Camera and mic toggles</li> <li>• Private Compute Core</li> <li>• Android System Intelligence</li> <li>• Android backup encryption</li> </ul>	<b>M</b>	
<b>Front camera</b>	<ul style="list-style-type: none"> <li>• 8 MP</li> <li>• 1.12 µm pixel width</li> <li>• <i>f</i>/2.0 aperture</li> <li>• Fixed focus</li> <li>• 84° field of view</li> <li>• 1/4" image sensor size</li> </ul>	<b>M</b>	
<b>Rear camera</b>	<ul style="list-style-type: none"> <li>• 8 MP</li> <li>• 1.12 µm pixel width</li> <li>• <i>f</i>/2.0 aperture</li> <li>• Fixed focus</li> <li>• 84° field of view</li> </ul>	<b>M</b>	

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<b>Camera features</b>	<ul style="list-style-type: none"> <li>• 1/4" image sensor size</li> <li>• Magic Eraser6</li> <li>• Photo Unblur</li> <li>• Long Exposure</li> <li>• Panorama</li> <li>• Manual white balancing</li> <li>• Locked Folder</li> <li>• Night Sight</li> <li>• Top Shot</li> <li>• Portrait mode (front camera only)</li> <li>• Portrait Light</li> <li>• Frequent Faces</li> <li>• Live HDR+</li> <li>• Guided Frame</li> </ul>	<b>M</b>	
<b>Video and video calling</b>	<p><b>Front camera</b></p> <ul style="list-style-type: none"> <li>• 1080p video recording at 30 FPS</li> <li>• Google Meet included</li> <li>• Zoom, WhatsApp and more available on Google Play</li> <li>• Video stabilisation</li> <li>• Live HDR+</li> <li>• Auto timelapse</li> <li>• Speech enhancement</li> <li>• Video formats: HEVC (H.265) and AVC (H.264)</li> </ul> <p><b>Rear camera</b></p> <ul style="list-style-type: none"> <li>• 1080p video recording at 30 FPS</li> </ul>	<b>M</b>	
<b>Authentication</b>	<ul style="list-style-type: none"> <li>• Fingerprint Unlock with power button fingerprint sensor</li> <li>• Pattern, PIN, password</li> </ul>	<b>M</b>	
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• Ambient light sensor</li> <li>• Accelerometer</li> <li>• Gyroscope</li> <li>• Magnetometer</li> <li>• Hall sensor</li> </ul>	<b>M</b>	
<b>Buttons and ports</b>	<ul style="list-style-type: none"> <li>• Power button</li> <li>• Volume controls</li> <li>• USB Type-C® 3.2 Gen 1</li> <li>• 4-pin accessory connector for charging, data transfer and audio output</li> </ul>	<b>M</b>	
<b>Media and audio</b>	<ul style="list-style-type: none"> <li>• 4 built-in speakers</li> <li>• Three microphones for calls, recordings and Google Assistant</li> <li>• Noise suppression</li> </ul>	<b>M</b>	
<b>Connectivity and location</b>	<ul style="list-style-type: none"> <li>• Wi-Fi 6 (802.11 a/b/g/n/ac/ax) with 2 x 2 MIMO, simultaneous dual-band (2.4 GHz, 5.0 GHz)</li> <li>• Bluetooth v5.2</li> <li>• Ultra-wideband chip for accurate ranging</li> <li>• Google Cast</li> </ul>	<b>M</b>	
<b>Security and OS updates</b>	<p>Five years of Pixel updates</p>	<b>M</b>	
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Made with over 30% recycled materials based on product weight and the aluminum in the enclosure is 100% recycled content.</li> <li>• AED/nano ceramic coating</li> </ul>	<b>M</b>	
<b>Video playback</b>	<ul style="list-style-type: none"> <li>• Supports H.263, H.264 AVC, H.265 HEVC, MPEG-4, VP8, VP9, AV1</li> <li>• Supports HDR10 content</li> </ul>	<b>M</b>	

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<b>Audio playback</b>	Supported formats include: <ul style="list-style-type: none"><li>• AAC</li><li>• MP3</li><li>• FLAC</li><li>• LDAC</li></ul>	<b>M</b>	
<b>Google Assistant</b>	Yes	<b>M</b>	

# Malawi Revenue Authority

## LOT 2 – IOS PHONE

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance of specification offered
Operating System	iOS 17	<b>M</b>	
Capacity <sup>1</sup>	128GB	<b>M</b>	
Size and Weight	<ul style="list-style-type: none"> <li>• <b>Height:</b> 5.81 inches</li> <li>• <b>Width:</b> 2.82 inches</li> <li>• <b>Depth:</b> 0.31 inch</li> </ul>	<b>M</b>	
Display	<ul style="list-style-type: none"> <li>• 6.1"</li> <li>• Super Retina XDR display</li> <li>• 6.1-inch (diagonal) all-screen OLED display</li> <li>• 2556-by-1179-pixel resolution at 460 ppi</li> <li>• Dynamic Island</li> <li>• HDR display</li> <li>• True Tone</li> <li>• Wide color (P3)</li> <li>• Haptic Touch</li> <li>• 2,000,000:1 contrast ratio (typical)</li> <li>• 1000 nits max brightness (typical); 1600 nits peak brightness (HDR); 2000 nits peak brightness (outdoor)</li> <li>• Fingerprint-resistant oleophobic coating</li> <li>• Support for display of multiple languages and characters simultaneously</li> </ul>	<b>M</b>	
Splash, Water, and Dust Resistant	Rated IP68 (maximum depth of 6 meters up to 30 minutes) under IEC standard 60529	<b>M</b>	
Chip	<ul style="list-style-type: none"> <li>• A16 Bionic chip</li> <li>• 6-core CPU with 2 performance and 4 efficiency cores</li> <li>• 5-core GPU</li> <li>• 16-core Neural Engine</li> </ul>	<b>M</b>	
Camera	<p>Advanced dual-camera system</p> <ul style="list-style-type: none"> <li>• 48MP Main: 26 mm, <i>f</i>/1.6 aperture, sensor-shift optical image stabilization, 100% Focus Pixels, support for super-high-resolution photos (24MP and 48MP)</li> <li>• 12MP Ultra Wide: 13 mm, <i>f</i>/2.4 aperture and 120° field of view</li> <li>• 12MP 2x Telephoto (enabled by quad-pixel sensor): 52 mm, <i>f</i>/1.6 aperture, sensor-shift optical image stabilization, 100% Focus Pixels</li> <li>• 2x optical zoom in, 2x optical zoom out; 4x optical zoom range</li> <li>• Digital zoom up to 10x</li> <li>• Sapphire crystal lens cover</li> <li>• True Tone flash</li> <li>• Photonic Engine</li> <li>• Deep Fusion</li> <li>• Smart HDR 5</li> </ul>	<b>M</b>	



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	<ul style="list-style-type: none"> <li>• Next-generation portraits with Focus and Depth Control</li> <li>• Portrait Lighting with six effects</li> <li>• Night mode</li> <li>• Panorama (up to 63MP)</li> <li>• Photographic Styles</li> <li>• Wide color capture for photos and Live Photos</li> <li>• Lens correction (Ultra Wide)</li> <li>• Advanced red-eye correction</li> <li>• Auto image stabilization</li> <li>• Burst mode</li> <li>• Photo geotagging</li> <li>• Image formats captured: HEIF and JPEG</li> </ul>		
<b>Video Recording</b>	<ul style="list-style-type: none"> <li>• 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps</li> <li>• 1080p HD video recording at 25 fps, 30 fps, or 60 fps</li> <li>• 720p HD video recording at 30 fps</li> <li>• Cinematic mode up to 4K HDR at 30 fps</li> <li>• Action mode up to 2.8K at 60 fps</li> <li>• HDR video recording with Dolby Vision up to 4K at 60 fps</li> <li>• Slo-mo video support for 1080p at 120 fps or 240 fps</li> <li>• Time-lapse video with stabilization</li> <li>• Night mode Time-lapse</li> <li>• QuickTake video</li> <li>• Sensor-shift optical image stabilization for video (Main)</li> <li>• Digital zoom up to 6x</li> <li>• Audio zoom</li> <li>• True Tone flash</li> <li>• Cinematic video stabilization (4K, 1080p, and 720p)</li> <li>• Continuous autofocus video</li> <li>• Take 8MP still photos while recording 4K video</li> <li>• Playback zoom</li> <li>• Video formats recorded: HEVC and H.264</li> <li>• Stereo recording</li> </ul>	<b>M</b>	
<b>TrueDepth Camera</b>	<ul style="list-style-type: none"> <li>• 12MP camera</li> <li>• <i>f</i>/1.9 aperture</li> <li>• Autofocus with Focus Pixels</li> <li>• Retina Flash</li> <li>• Photonic Engine</li> <li>• Deep Fusion</li> <li>• Smart HDR 5</li> <li>• Next-generation portraits with Focus and Depth Control</li> <li>• Portrait Lighting with six effects</li> <li>• Animoji and Memoji</li> <li>• Night mode</li> <li>• Photographic Styles</li> <li>• Wide color capture for photos and Live Photos</li> <li>• Lens correction</li> <li>• Auto image stabilization</li> <li>• Burst mode</li> <li>• 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps</li> <li>• 1080p HD video recording at 25 fps, 30 fps, or 60 fps</li> <li>• Cinematic mode up to 4K HDR at 30 fps</li> <li>• HDR video recording with Dolby Vision up to 4K at 60</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>• fps</li> <li>• Slo-mo video support for 1080p at 120 fps</li> <li>• Time-lapse video with stabilization</li> <li>• Night mode Time-lapse</li> <li>• QuickTake video</li> <li>• Cinematic video stabilization (4K, 1080p, and 720p)</li> </ul>		
<b>Face ID</b>	Enabled by TrueDepth camera for facial recognition	<b>M</b>	
<b>Safety</b>	<ul style="list-style-type: none"> <li>• Emergency SOS via satellite</li> <li>• Crash Detection<sup>9</sup></li> <li>• Roadside Assistance via satellite</li> </ul>	<b>M</b>	
<b>Cellular and Wireless</b>	<ul style="list-style-type: none"> <li>• 5G NR (Bands n1, n2, n3, n5, n7, n8, n12, n14, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n53, n66, n70, n71, n75, n76, n77, n78, n79)</li> <li>• 5G NR mmWave (Bands n258, n260, n261)</li> <li>• FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 66, 71)</li> <li>• TD-LTE (Bands 34, 38, 39, 40, 41, 42, 46, 48, 53)</li> <li>• UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)</li> <li>• GSM/EDGE (850, 900, 1800, 1900 MHz)</li> <li>• 5G (sub-6 GHz and mmWave) with 4x4 MIMO<sup>10</sup></li> <li>• Gigabit LTE with 4x4 MIMO and LAA<sup>10</sup></li> <li>• Wi-Fi 6 (802.11ax) with 2x2 MIMO</li> <li>• Bluetooth 5.3</li> <li>• Second-generation Ultra Wideband chip<sup>11</sup></li> <li>• NFC with reader mode</li> <li>• Express Cards with power reserve</li> </ul>	<b>M</b>	
<b>Location</b>	<ul style="list-style-type: none"> <li>• GPS, GLONASS, Galileo, QZSS, and BeiDou</li> <li>• Digital compass</li> <li>• Wi-Fi</li> <li>• Cellular</li> <li>• iBeacon microlocation</li> </ul>	<b>M</b>	
<b>Video Calling</b>	<ul style="list-style-type: none"> <li>• FaceTime video calling over cellular or Wi-Fi</li> <li>• FaceTime HD (1080p) video calling over 5G or Wi-Fi</li> <li>• Share experiences like movies, TV, music, and other apps in a FaceTime call with SharePlay</li> <li>• Screen sharing</li> <li>• Portrait mode in FaceTime video</li> <li>• Spatial Audio</li> <li>• Voice Isolation and Wide Spectrum microphone modes</li> <li>• Zoom with rear-facing camera</li> </ul>	<b>M</b>	
<b>Audio Calling</b>	<ul style="list-style-type: none"> <li>• FaceTime audio</li> <li>• Voice over LTE (VoLTE)<sup>10</sup></li> <li>• Wi-Fi calling<sup>10</sup></li> <li>• Share experiences like movies, TV, music, and other apps in a FaceTime call with SharePlay</li> <li>• Screen sharing</li> <li>• Spatial Audio</li> <li>• Voice Isolation and Wide Spectrum microphone modes</li> </ul>	<b>M</b>	
<b>Audio Playback</b>	<ul style="list-style-type: none"> <li>• Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos</li> <li>• Spatial Audio playback</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>User-configurable maximum volume limit</li> </ul>		
<b>Video Playback</b>	<ul style="list-style-type: none"> <li>Supported formats include HEVC, H.264, and ProRes</li> <li>HDR with Dolby Vision, HDR10, and HLG</li> <li>Up to 4K HDR AirPlay for mirroring, photos, and video out to Apple TV (2nd generation or later) or AirPlay-enabled smart TV</li> <li>Video mirroring and video out support: Up to 4K HDR through native DisplayPort output over USB-C or USB-C Digital AV Adapter (model A2119; adapter sold separately)</li> </ul>	<b>M</b>	
<b>External Connectors</b>	USB-C connector	<b>M</b>	
<b>Charging and Expansion</b>	USB-C connector with support for: <ul style="list-style-type: none"> <li>Charging</li> <li>DisplayPort</li> <li>USB 2 (up to 480Mb/s)</li> </ul>	<b>M</b>	
<b>Power and Battery</b>	<b>Video playback:</b> Up to 20 hours <b>Video playback (streamed):</b> Up to 16 hours <b>Audio playback:</b> Up to 80 hours Built-in rechargeable lithium-ion battery MagSafe wireless charging up to 15W16 Qi2 wireless charging up to 15W16 Qi wireless charging up to 7.5W16 Fast-charge capable: Up to 50% charge in around 30 minutes17 with 20W adapter or higher (available separately)	<b>M</b>	
<b>MagSafe</b>	<ul style="list-style-type: none"> <li>Wireless charging up to 15W16</li> <li>Magnet array</li> <li>Alignment magnet</li> <li>Accessory Identification NFC</li> <li>Magnetometer</li> </ul>	<b>M</b>	
<b>Sensors</b>	<ul style="list-style-type: none"> <li>Face ID</li> <li>Barometer</li> <li>High dynamic range gyro</li> <li>High-g accelerometer</li> <li>Proximity sensor</li> <li>Dual ambient light sensors</li> </ul>	<b>M</b>	
<b>SIM Card</b>	Physical SIM	<b>M</b>	
<b>Rating for Hearing Aids</b>	M3, T4	<b>M</b>	
<b>Environmental Requirements</b>	<ul style="list-style-type: none"> <li>Operating ambient temperature: 32° to 95° F (0° to 35° C)</li> <li>Nonoperating temperature: -4° to 113° F (-20° to 45° C)</li> <li>Relative humidity: 5% to 95% noncondensing</li> <li>Operating altitude: tested up to 10,000 feet (3000 m)</li> </ul>	<b>M</b>	

# Malawi Revenue Authority

## LOT 2(B) – IOS TABLET

	Technical Specification of items required including applicable standards	Mandatory	State Level of Compliance of specification offered
<b>Operating System</b>	iPadOS 17	<b>M</b>	
<b>Capacity<sup>1</sup></b>	256GB	<b>M</b>	
<b>Size and Weight</b>	<ul style="list-style-type: none"> <li>• <b>Width:</b> 9.83 inches</li> <li>• <b>Length:</b> 6.99 inches</li> <li>• <b>Thickness:</b> 6.99 inches</li> </ul>	<b>M</b>	
<b>Connectors</b>	Thunderbolt / USB 4	<b>M</b>	
<b>Display</b>	<ul style="list-style-type: none"> <li>• 11"</li> <li>• Ultra Retina XDR display</li> <li>• Tandem OLED3</li> <li>• 2420-by-1668-pixel resolution at 264 ppi</li> <li>• ProMotion technology with adaptive refresh rates from 10Hz to 120Hz</li> <li>• Wide color (P3)</li> <li>• True Tone</li> <li>• Fingerprint-resistant oleophobic coating</li> <li>• Fully laminated</li> <li>• Antireflective coating</li> <li>• Nano-texture display glass option on 1TB and 2TB models</li> <li>• SDR brightness: 1000 nits max</li> <li>• XDR brightness: 1000 nits max full screen, 1600 nits peak (HDR content only)</li> <li>• 2,000,000:1 contrast ratio</li> <li>• Supports Apple Pencil Pro</li> <li>• Supports Apple Pencil (USB-C)</li> <li>• Apple Pencil hover</li> </ul>	<b>M</b>	
<b>Chip</b>	<p>Apple M4 chip</p> <ul style="list-style-type: none"> <li>• 9-core CPU with 3 performance cores and 6 efficiency cores</li> <li>• 10-core GPU</li> <li>• Hardware-accelerated ray tracing</li> <li>• 16-core Neural Engine</li> <li>• 120GB/s memory bandwidth</li> <li>• 8GB RAM</li> </ul> <p>Media Engine</p> <ul style="list-style-type: none"> <li>• Hardware-accelerated 8K H.264, HEVC, ProRes, and ProRes RAW</li> <li>• Video decode engine</li> <li>• Video encode engine</li> <li>• ProRes encode and decode engine</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>• AV1 decode</li> </ul>		
<b>Camera</b>	<ul style="list-style-type: none"> <li>• 12MP Wide camera, <i>f</i>/1.8 aperture</li> <li>• Digital zoom up to 5x</li> <li>• Five-element lens</li> <li>• Adaptive True Tone flash</li> <li>• Panorama (up to 63MP)</li> <li>• Sapphire crystal lens cover</li> <li>• Autofocus with Focus Pixels</li> <li>• Smart HDR 4</li> <li>• Wide color capture for photos and Live Photos</li> <li>• Advanced red-eye correction</li> <li>• Photo geotagging</li> <li>• Auto image stabilization</li> <li>• Burst mode</li> <li>• Image formats captured: HEIF and JPEG</li> </ul>	<b>M</b>	
<b>Video Recording</b>	<ul style="list-style-type: none"> <li>• 4K video recording at 24 fps, 25 fps, 30 fps, or 60 fps</li> <li>• 1080p HD video recording at 25 fps, 30 fps, or 60 fps</li> <li>• 720p HD video recording at 30 fps</li> <li>• ProRes video recording up to 4K at 30 fps (1080p at 30 fps for 256GB storage)</li> <li>• Audio zoom</li> <li>• Adaptive True Tone flash</li> <li>• Slo-mo video support for 1080p at 120 fps or 240 fps</li> <li>• Time-lapse video with stabilization</li> <li>• Extended dynamic range for video up to 30 fps</li> <li>• Cinematic video stabilization (4K, 1080p, and 720p)</li> <li>• Continuous autofocus video</li> <li>• Playback zoom</li> <li>• Video formats recorded: HEVC and H.264</li> <li>• Stereo recording</li> </ul>	<b>M</b>	
<b>TrueDepth Camera</b>	<ul style="list-style-type: none"> <li>• Landscape 12MP Ultra Wide camera</li> <li>• <i>f</i>/2 aperture</li> <li>• Portrait mode with advanced bokeh and Depth Control</li> <li>• Portrait Lighting with six effects (Natural, Studio, Contour, Stage, Stage Mono, High-Key Mono)</li> <li>• Animoji and Memoji</li> <li>• Smart HDR 4</li> <li>• 1080p HD video recording at 25 fps, 30 fps, or 60 fps</li> <li>• Time-lapse video with stabilization</li> <li>• Extended dynamic range for video up to 30 fps</li> <li>• Cinematic video stabilization (1080p and 720p)</li> <li>• Wide color capture for photos and Live Photos</li> <li>• Lens correction</li> <li>• Refina Flash with True Tone</li> <li>• Auto image stabilization</li> <li>• Burst mode</li> </ul>	<b>M</b>	
<b>Safety</b>	<ul style="list-style-type: none"> <li>• Emergency SOS via satellite</li> <li>• Crash Detection<sup>9</sup></li> <li>• Roadside Assistance via satellite</li> </ul>	<b>M</b>	
<b>Cellular and Wireless</b>	<ul style="list-style-type: none"> <li>• Wi-Fi 6E (802.11ax) with 2x2 MIMO5</li> <li>• Simultaneous dual band</li> <li>• Bluetooth 5.3</li> <li>• 5G (sub-6 GHz) with 4x4 MIMO</li> <li>• Gigabit LTE with 4x4 MIMO</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>•</li> </ul>		
<b>Location</b>	<ul style="list-style-type: none"> <li>• Digital compass</li> <li>• Wi-Fi</li> <li>• iBeacon microlocation</li> <li>• GPS/GNSS</li> <li>• Cellular</li> </ul>	<b>M</b>	
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• Face ID</li> <li>• LiDAR Scanner</li> <li>• Three-axis gyro</li> <li>• Accelerometer</li> <li>• Barometer</li> <li>• Ambient light sensors</li> </ul>	<b>M</b>	
<b>Charging and Expansion</b>	<ul style="list-style-type: none"> <li>• Thunderbolt / USB 4 port with support for:</li> <li>• Charging</li> <li>• DisplayPort</li> <li>• Thunderbolt 3 (up to 40Gb/s)</li> <li>• USB 4 (up to 40Gb/s)</li> <li>• USB 3 (up to 10Gb/s)</li> </ul>	<b>M</b>	
<b>Display Support</b>	<p>Supports full native resolution on the built-in display at millions of colors</p> <ul style="list-style-type: none"> <li>• Supports one external display with up to 6K resolution at 60Hz</li> <li>• Thunderbolt 3 digital video output</li> </ul> <p>Native DisplayPort output over USB-C</p> <ul style="list-style-type: none"> <li>• VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters (sold separately) 10</li> </ul> <p>Video mirroring</p> <ul style="list-style-type: none"> <li>• Up to 4K AirPlay for mirroring, photos, and video out to Apple TV (2nd generation or later) or AirPlay-enabled smart TV</li> <li>• Video mirroring and video out support through USB-C Digital AV Multiport Adapter and USB-C VGA Multiport Adapter (adapters sold separately)</li> </ul>	<b>M</b>	
<b>Power and Battery</b>	<ul style="list-style-type: none"> <li>• Built-in 31.29-watt-hour rechargeable lithium-polymer battery</li> <li>• Up to 10 hours of surfing the web on Wi-Fi or watching video</li> <li>• Charging via power adapter or USB-C to computer system</li> <li>• Up to 9 hours of surfing the web using cellular data network</li> </ul>	<b>M</b>	
<b>Accessibility</b>	<ul style="list-style-type: none"> <li>• VoiceOver</li> <li>• Zoom</li> <li>• Magnifier</li> <li>• Spoken Content</li> <li>• Voice Control</li> <li>• Switch Control</li> </ul>	<b>M</b>	

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	<ul style="list-style-type: none"> <li>• AssistiveTouch</li> <li>• Siri and Dictation</li> <li>• Type to Siri</li> <li>• Real-Time Text</li> <li>• Audio Descriptions</li> <li>• Subtitles and Closed Captioning</li> <li>• Live Captions</li> </ul>		
<b>Video Playback</b>	Supported formats include HEVC, H.264, AV1, and ProRes <ul style="list-style-type: none"> <li>• HDR with Dolby Vision, HDR10, and HLG</li> </ul>	<b>M</b>	
<b>Audio Playback</b>	Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos Spatial Audio playback User-configurable maximum volume limit	<b>M</b>	
<b>Environmental Requirements</b>	<ul style="list-style-type: none"> <li>• Operating ambient temperature: 32° to 95° F (0° to 35° C)</li> <li>• Nonoperating temperature: -4° to 113° F (-20° to 45° C)</li> <li>• Relative humidity: 5% to 95% noncondensing</li> <li>• Operating altitude: tested up to 10,000 feet (3000 m)</li> </ul>	<b>M</b>	