# SPECIFICATIONS
Touchcomputer
PRODUCT SPECIFICATIONS,
Android M50 Mobile Computer
~~Android Handheld Non-Payment M50~~

DOCUMENT: PS600424
REV: B
REV DATE: Dec. 15, 2020
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670 N. McCarthy Blvd.
Milpitas, CA 95035
*www.elotouch.com*

**REVISION HISTORY:**

| REV: | DATE: | ORIGINATOR: | DESCRIPTION |
|---|---|---|---|
| Draft | 11/11/2019 | Seda Kutlu | Draft |
| 1 | 2/19/2020 | Cameron Cole | Update |
| 2 | 2/26/20 | Ranil Fernando | Update |
| 3 | 3/5/2020 | Cameron Cole | Update |
| 6 | 7/30/2020 | Cameron Cole | Update |
| 7 | 11/13/2020 | Angela Huang / Bill Yu | Update regulatory approvals, LTE band, battery SPEC |
| A | 11/16/2020 | Bill Yu | Initial release per CO-20-1880 |
| B | 12/15/2020 | Cameron Cole / Bill Yu | Revise per CO-20-xxxx, update<br>1. Accessories description.<br>2. Warranty plans.<br>3. OS support.<br>4. Storage temperate in °F. |

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## Handheld Non-Payment M50 Specifications:

| Model | Android Handheld Non-payment M50 |
|---|---|
| Processor | Qualcomm Snapdragon 660 2.2GHz Octa-Core Processor |
| Operating System Options | Android 10 with Google Play Services (AOSP capable)<br>China: Android 10 AOSP<br>Planned upgrade to Android R 11 (Android 12 support pending) |
| Memory (RAM) | 4GB |
| Hard Disk Drive | 64GB |
| Expansion Slot | MicroSD up to 32GB SDHC and up to 256 GB SDXC |
| I/O Ports | USB Type-C for display, charging, and data |
| Wi-Fi | 802.11a/b/g/n/ac with 2x2 MU-MIMO |
| Bluetooth | Bluetooth 5.0 |
| Cellular | Available on cellular SKU's with user accessible nano SIM slot.<br>LTE US Carriers: AT&T<br>LTE Europe: Open Carrier<br><br>For E862757:<br>WCDMA: B2, B4, B5<br>LTE: B2, B4, B12, B66<br><br>For E993091:<br>WCDMA: B1, B8<br>LTE: B1, B3, B7, B8, B20 |
| GPS (for cellular models only) | Simultaneous GNSS Receiver for GPS, GLONASS, Galileo and BeiDou<br>AGPS support |
| LED | 1x combination Green/Amber LED for battery/charging status<br>1x combination Blue/Red user programmable LED |
| Keyboard | On screen keyboard |
| Audio | Microphone<br>1W Front facing speaker<br>Bluetooth headset support<br>USB-C headset support |

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| | |
|---|---|
| Buttons | Left and Right Programmable Scanner Trigger buttons<br>Power Button |
| NFC | • MiFare<br>• Felica<br>• ISO15693<br>• ISO 14443-A<br>• ISO 14443-B<br>• P2P mode and Card Emulation |
| Barcode Scanner | Zebra SE4710 scan engine (1D~~and~~/2D Imager) |
| Camera | 8MP Auto-Focus with Flash LED and Flashlight (Torch) |
| Display | 5.5" Optically Bonded High Definition LCD |
| Contrast Ratio | 1000:1 typical |
| Touchscreen | Projective capacitive with Corning Gorilla Glass<br>Water rejection<br>Anti-Fingerprint Coating |
| Sensors | Light sensor (automatically adjust backlight brightness)<br>Proximity sensor (disable display and touch when user places against head)<br>Accelerometer |
| Native (optimal) Resolution | 1280 x 720 |
| Brightness (typical) | 400 nits |
| Battery | Rechargeable ~~Li-Polymer~~, 3.8V/4000mAh<br>User swappable<br>Qualcomm Quick Charge 4 |
| Product Dimensions (W x H x D) | 85.5 mm x 167 mm x 17.4 mm<br>3.36″ x 6.57″ x 0.68″ |
| Shipping Box Dimensions (W x H x D) | 217 mm x 142 mm x 72 mm<br>8.54″ x 5.59″ x 2.83″ |
| Weight | 327g |
| Shipping Weight | 700g |
| Drop Specification | Multiple 4ft/1.2m drops per MIL810-G standard |
| Tumble Specification | 1000 tumbles, 1.6ft./0.5m per IEC 60068-2-32 |
| Sealing | IP65 per IEC standard 60529 |

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|---|---|
| Temperature | Operating: 0°C to 50°C (32°F to 122°F)<br>Storage: -30°C to 60°C (~~-4~~-22°F to 140°F) |
| Humidity | 5% to 95% non-condensing |
| Regulatory approvals and declarations | UL, FCC (US) - Class B<br>cUL, IC (Canada)<br>CB (International safety)<br>CE (Europe) - Class B<br>VCCI (Japan)<br>RCM (Australia)<br>China RoHS |
| ESD | Class C: 8kV contact, 15kV air |
| Warranty | 1-year ~~not including water or screen damage~~ factory warranty |
| Extended Warranty | ~~E672040 – 3 yr warranty coverage + ADP~~<br>~~E672239 - 5 yr warranty coverage + ADP~~<br>~~E672440 - 3 yr warranty coverage + AUR + ADP~~<br>~~E672646 - 5 yr warranty coverage + AUR + ADP~~<br>~~TBD – 3 year OSCare~~<br>~~TBD - 5 year OSCare~~<br><br>E894512 — Handheld 1 YR Warranty Coverage + AUR + ADP<br>E672040 — Handheld 3 YR Warranty Coverage + ADP<br>E672239 — Handheld 5 YR Warranty Coverage + ADP<br>E672440 — Handheld 3 YR Warranty Coverage + AUR + ADP<br>E672646 — Handheld 5 YR Warranty Coverage + AUR + ADP<br>E893726 — Handheld 3 YR Warranty Coverage + ADP + OS Care<br>E893926 — Handheld 5 YR Warranty Coverage + ADP + OS Care<br>E894122 — Handheld 3 YR Warranty Coverage + AUR + ADP + OS Care<br>E894322 — Handheld 5 YR Warranty Coverage + AUR + ADP + OS Care<br>E873133 — Android 3 YR EloCare OS<br>E873326 — Android 5 YR EloCare OS |
| OS Security Updates | Complimentary security updates provided for 1 year.<br>Optional extended coverage available with Elo OSCare package |
| What's in the box | Elo M50<br>USB Type C Charger with Qualcomm Quick Charge 4.0<br>Quick Install Guide |

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| Part Number | Cellular or WiFi | Region/Availability |
|---|---|---|
| E862757 | Cellular (AT&T) | United States |
| E993091 | Cellular (Open Carrier) | Europe |
| E862573 | WiFi | Worldwide |
| E994271 | WiFi | China |

3 year warranty coverage + ADP - Elo P/N: E672040
5 year warranty coverage + ADP - Elo P/N: E672239
1 year warranty coverage + AUR + ADP - Elo P/N: E894512
3 year warranty coverage + AUR + ADP - Elo P/N: E672440
5 year warranty coverage + AUR + ADP - Elo P/N: E672646
3 year warranty coverage + ADP + OS Care - Elo P/N: E893726
5 year warranty coverage + ADP + OS Care - Elo P/N: E893926
3 year warranty coverage + AUR + ADP + OS Care - Elo P/N: E894122
5 year warranty coverage + AUR + ADP + OS Care - Elo P/N: E894322
3 year OS Care - Elo P/N: E873133
5 year OS Care - Elo P/N:  E873326

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## Accessories

| Part Number | Product Description |
|---|---|
| E863687 | ~~I/O Hub~~ <br> EM10 Expansion Module |
| E864066 | ~~Dock (Single Device) Non-Payment~~ <br> DS10 Docking Station |
| E864455 | ~~Spare Battery~~ <br> M50 Battery |
| E864653 | ~~Multi-Device Charger~~ <br> DC10 4 Slot Device Charger |
| E461816 | ~~Multi Battery Charger~~ <br> BC10 4 Slot Battery Charger |
| E994659 | ~~Handstrap~~ <br> HS10 Hand Strap |

| Document Number | Elo Description |
|---|---|
| UM600472 | Elo Handheld Computer, English |
| UM600473 | Elo Handheld Computer, French |
| UM600474 | Elo Handheld Computer, Italian |
| UM600475 | Elo Handheld Computer, Spanish |
| UM600476 | Elo Handheld Computer, Portuguese |
| UM600477 | Elo Handheld Computer, Korean |
| UM600478 | Elo Handheld Computer, Japanese |
| UM600479 | Elo Handheld Computer, Dutch |
| UM600480 | Elo Handheld Computer, German |
| UM600481 | Elo Handheld Computer, Simplified Chinese |
| QIG600143 | Quick install guide, Elo Handheld Computer, M50 |
| QIG600144 | Quick install guide, Elo Handheld Computer, M50C |
| MD600113 | Declaration of Conformity, Elo Handheld Computer |
| MS602770 | Dimensional Drawing, Handheld, M50 |
| SD609912 | Mech. Drawing, Elo Handheld Computer |