



SPECIFICATIONS
Touchcomputer
PRODUCT SPECIFICATIONS,
Android M50 Mobile Computer

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

~~Android Handheld Non-Payment M50~~

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 1. Accessories description. 2. Warranty plans. 3. OS support. 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) China: Android 10 AOSP 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. LTE US Carriers: AT&T LTE Europe: Open Carrier For E862757: WCDMA: B2, B4, B5 LTE: B2, B4, B12, B66 For E993091: WCDMA: B1, B8 LTE: B1, B3, B7, B8, B20
GPS (for cellular models only)	Simultaneous GNSS Receiver for GPS, GLONASS, Galileo and BeiDou AGPS support
LED	1x combination Green/Amber LED for battery/charging status 1x combination Blue/Red user programmable LED
Keyboard	On screen keyboard
Audio	Microphone 1W Front facing speaker Bluetooth headset support USB-C headset support



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Buttons	Left and Right Programmable Scanner Trigger buttons Power Button
NFC	<ul style="list-style-type: none"> • MiFare • Felica • ISO15693 • ISO 14443-A • ISO 14443-B • 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 Water rejection Anti-Fingerprint Coating
Sensors	Light sensor (automatically adjust backlight brightness) Proximity sensor (disable display and touch when user places against head) Accelerometer
Native (optimal) Resolution	1280 x 720
Brightness (typical)	400 nits
Battery	Rechargeable Li-Polymer , 3.8V/4000mAh User swappable Qualcomm Quick Charge 4
Product Dimensions (W x H x D)	85.5 mm x 167 mm x 17.4 mm 3.36" x 6.57" x 0.68"
Shipping Box Dimensions (W x H x D)	217 mm x 142 mm x 72 mm 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) Storage: -30°C to 60°C (-42°F to 140°F)
Humidity	5% to 95% non-condensing
Regulatory declarations and approvals	UL, FCC (US) - Class B cUL, IC (Canada) CB (International safety) CE (Europe) - Class B VCCI (Japan) RCM (Australia) 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
	E672239 — 5-yr warranty coverage + ADP
	E672440 — 3-yr warranty coverage + AUR + ADP
	E672646 — 5-yr warranty coverage + AUR + ADP
	TBD — 3-year OSCare
	TBD — 5-year OSCare
	E894512 Handheld 1 YR Warranty Coverage + AUR + ADP
	E672040 Handheld 3 YR Warranty Coverage + ADP
	E672239 Handheld 5 YR Warranty Coverage + ADP
	E672440 Handheld 3 YR Warranty Coverage + AUR + ADP
	E672646 Handheld 5 YR Warranty Coverage + AUR + ADP
E893726 Handheld 3 YR Warranty Coverage + ADP + OS Care	
E893926 Handheld 5 YR Warranty Coverage + ADP + OS Care	
E894122 Handheld 3 YR Warranty Coverage + AUR + ADP + OS Care	
E894322 Handheld 5 YR Warranty Coverage + AUR + ADP + OS Care	
E873133 Android 3 YR EloCare OS	
E873326 Android 5 YR EloCare OS	
OS Security Updates	Complimentary security updates provided for 1 year. Optional extended coverage available with Elo OSCare package
What's in the box	Elo M50 USB Type C Charger with Qualcomm Quick Charge 4.0 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 EM10 Expansion Module
E864066	Deck (Single Device) Non-Payment DS10 Docking Station
E864455	Spare Battery M50 Battery
E864653	Multi-Device Charger DC10 4 Slot Device Charger
E461816	Multi-Battery Charger BC10 4 Slot Battery Charger
E994659	Handstrap 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

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