



# Elo M51

## Mobile Computer



**6" FHD Display**



**Built-in NFC for Contactless Payments**



**Android 14**

## Product Overview

The Elo M51 is an enterprise-grade rugged mobile computer designed to meet the demands of large enterprises. It features a 6-inch FHD scratch-resistant touch display, Android 14 OS, a powerful Qualcomm 6490 octa-core processor, integrated NFC, and an optional 2D barcode scanner. Whether enhancing retail store operations, optimizing warehouse management, or streamlining ticketing processes, the Elo M51 enables your employees to boost efficiency and improve operational workflows.

Built to withstand the rigors of commercial use, the M51 is purpose-built with chemically strengthened glass and rugged housing that meets IP68 and MIL-810G standards. The mobile computer also includes a warm-swappable 4,500 mAh battery that provides up to 12 hours of battery life.

**Integrated Cameras - 13MP rear camera and 8MP front camera.**

**Rugged design - Chemically-strengthened glass, IP68, MIL810-G**

**Optional accessories including device and battery chargers, rubber boot, scan trigger handle and more**

**Enterprise-Grade Support - Security updates, seamless provisioning, Elo Home, OEMConfig and more**

## M51 Mobile Computer

Specifications	
Display	6" Optically Bonded High-Definition LCM; 2160x 1080; LED back-light; 500 NITS
Touchscreen	Capacitive touch with Corning Gorilla Glass Victus, Water droplet rejection, Anti-Fingerprint Coating
Operating System	Android 14 with GMS, Planned upgrade to Android 16
Processor	Qualcomm QCM6490 8x Kryo 670 CPU up to 2.7GHz
Memory	8GB LPDDR5
Storage	128GB UFS
Expansion Slot	MicroSD card supports up to SDXC UHS-1 1TB
SIM	1 nano SIM; 1 eSIM
I/O Ports	USB Type-C for display, charging, and data, Rear pogo pad for scan trigger handle, Bottom pogo pad for charging
Wireless	IEEE 802.11 a/b/g/n/ac/ax, WIFI 6E, 2x2 MU-MIMO, Bluetooth 5.2
Cellular	North America Models: E450425, E450619 - Carrier: AT&T certified 5G FR1: n2/5/12/25/30/38/41/48/66/71/77/78; 4G: B2/4/5/12/13/14/17/25/29/30/38/41/42/43/46/48/66/71; 3G: B2/4/5 Europe Models: E450052, E450234 - Carrier: Open 5G FR1: n1/3/7/8/28/38/41/77/78/79; 4G: B1/2/3/5/7/8/20/26/28/38/39/40/41; 3G: B1/5/8
GPS	GPS, GLONASS, Galileo and BeiDou-concurrent L1/G1/E1/B1 (GPS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS, GAL, BeiDou); AGPS support
Notification	1x combination Green/Amber LED for charging status, 1x combination Blue/Red user programmable LED, Vibrator for haptic feedback
Keyboard	On-screen keyboard
Audio	Dual microphone with noise cancellation, Dual speakers with combine a receiver on the top, Bluetooth headset support, USB-C PTT headset and USB-C headset support
Buttons	Dual scan buttons (programmable buttons), Power button, Push to talk button, Volume up/down buttons
Integrated Peripherals	NFC - MiFare, Felica, ISO15693, ISO 14443 Type A/B, Support CPoC Barcode Scanner - Zebra SE4100 1D/2D scan engine (Scanner SKU only) Camera - Rear: 13MP Auto-Focus with Flash LED, supports torch mode; Front: 8MP Fixed-Focus
Sensors	Light sensor (automatically adjust backlight brightness), Proximity sensor (disable display and touch when placed against head during the call), Accelerometer
Battery	Rechargeable, 3.85V/4520mAh, Warm Swap battery mode, Qualcomm Quick Charge 4
Dimensions	Unpackaged: 6.65" x 3.07" x 0.65" / 168.8 mm x 78 mm x 16.5 mm, Packaged: 8.66" x 5.28" x 2.91" / 220 mm x 134 mm x 74 mm
Weight	Unpackaged: 298g, Packaged: 700g
Drop Specification	4ft/1.2m drops per MIL810-G; 6ft/1.8m drops with the protective boot per MIL 810-G
Tumble Specification	1000 tumbles, 1.6ft./0.5m with the protective boot per IEC 60068-2-32
Sealing	IP68 per IEC standard 60529
Temperature	Operating: -4°F to 122°F (-20°C to 50°C); Storage: -22°F to 140°F (-30°C to 60°C)
Humidity	5% to 95% non-condensing
ESD	+/- 8kV contact discharge, +/- 15kV air discharge
Regulatory approvals and declarations	UL, FCC (US) - Class B; cUL, IC (Canada); CB (International safety); CE (Europe) - Class B; RCM (Australia); NOM (Mexico)
Warranty	1-year
Extended Warranty	2 year - Elo P/N: E764955, 3 year - Elo P/N: E765148, 4 year - Elo P/N: E765352, 5 year - Elo P/N: E765553 2 year + AUR - Elo P/N: E765759, 3 year + AUR - Elo P/N: E765956, 4 year + AUR - Elo P/N: E766156, 5 year + AUR - Elo P/N: E766346 3 year + ADP - Elo P/N: E672040, 5 year + ADP - Elo P/N: E672239 1 year + AUR + ADP - Elo P/N: E894512, 3 year + AUR + ADP - Elo P/N: E672440, 5 year + AUR + ADP - Elo P/N: E672646 3 year OS 360 - Elo P/N: E897877, 4 year OS 360 - Elo P/N: E898079, 5 year OS 360 - Elo P/N: E898282 3 year one battery coverage - Elo P/N: E654254, 3 year two battery coverage - Elo P/N: E654820
Security Updates	Monthly Android security updates available with Elo OS 360 package.
What's in the box	Elo M51, Power Adapter with US, EU and UK plugs, USB C Cable, Quick Install Guide

## Ordering Information

Part Number	OS	Cellular/WiFi	Availability
E450425	Android 14 (GMS)	Cellular (AT&T)	United States
E450619	Android 14 (GMS)	Cellular (AT&T)	United States
E450052	Android 14 (GMS)	Cellular (Open Carrier)	Europe
E450234	Android 14 (GMS)	Cellular (Open Carrier)	Europe
E446755	Android 14 (GMS)	WiFi	Worldwide
E449855	Android 14 (GMS)	WiFi	Worldwide

## Optional Accessories

Part Number	Accessory	Part Number	Accessory
E534089	M51 Single Device Dock with Pogo-Pins	E527713	M51 USB-C PTT Headset
E367373	M51 Single Device Dock with USB-C	E118460	M51 Handstrap
E526176	M51 4 Unit Device Charger	E527515	M51 Lanyard Connector
E526745	M51 4 Slot Battery Charger	E526745	M51 Holster
E533892	M51 Battery	E527141	M51 Rubber Boot
E527331	M51 Scan Handle		

Learn more about Elo at [EloTouch.com](https://www.elotouch.com).

### Americas

Tel +1 408 597 8000  
elosales.na@elotouch.com

### Europe (EMEA)

Tel +32 (0)16 70 45 00  
EMEA.Sales@elotouch.com

### Asia Pacific

Tel +86 (21) 3329 1385  
www.elotouch.com.cn

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