

ME74 Ultra-Rugged Mobile Computer

Cold-Chain Ready Mobile Computer. Elevating Ultra-Rugged Enterprise Mobility — Embark on a Journey of Advanced Protection, Speed, and Remarkable Versatility to Confront the Future's Demands.

Unveiling the MEFERI ME74, the epitome of ultra-rugged excellence in the realm of enterprise mobility. Situated in its nucleus, the powerful Qualcomm Premium CPU synergizes effortlessly with Android 13's sophistication, further fortified by Android Enterprise Recommended (AER) accreditations—a hallmark of superior security and reliability. With AER, ME74 seamlessly complies with Google's apex enterprise criteria, ensuring users an impregnable security spectrum, while Google Mobile Services (GMS) brings forth an array of crucial enterprise apps and solutions.

Standing proudly at its facade, the vibrant 4.3-inch touchscreen is designed for a flawless response even under wet conditions or with gloved hands, enhancing operational clarity. Dive into vast data realms with unparalleled scanning capabilities, including modules from industry giants Zebra and Honeywell. Whether it's high shelves or varying distances, the long-range scanning modules offer unmatched barcode accuracy, even for faded or damaged codes.

With an expansive memory reservoir, handling colossal data becomes second nature. Uninterrupted connectivity is more than a promise with the latest WiFi 6—ensuring optimal signal and data integrity even while on the move. Durability reaches its zenith: an ultra-protective casing with rubberized shock absorbers, an IP67 protection rating, and components designed to resist the harshest of impacts.

Embrace extreme temperatures, from icy acceptance areas to frozen inventory spaces, with an operating tolerance down to -30C. With the revolutionary 8 Pogo pin system, charging becomes a breeze, eliminating wear and tear concerns. BT5.2 promises efficient, rapid, and uninterrupted connections, while dual cameras—Front: 8MP; Rear: 13MP—enhance data collection versatility.

The battery's Hot Swap feature ensures no task is left unfinished, while the game-changing three removable keyboards cater to diverse operational requirements, allowing users to effortlessly adapt. The ME74 – is not just an evolution, but the very pinnacle of ultra-rugged enterprise solutions.



NUMERIC 31 keys QWERTY 39 keys QWERTY 39 keys



Android Enterprise Reliability

Android 13: Tailored for Corporate Excellence

The ME74 device offers a seamless integration of Android 13, making corporate functions effortless and user-centric. With the Advanced Enterprise Recommended (AER) and Google Mobile Services (GMS) integrations, businesses can harness the full spectrum of Google services for enterprise-grade software development and other tasks. With regular security patch updates, the device stands as a fortress against digital threats, ensuring that your data remains uncompromised. It's not just an operating system; it's a testament to enterprise versatility.



Android Enterprise Reliability

Unbridled Power with Qualcomm's Advanced CPU

With the ME74's Qualcomm Premium CPU, expect a revolution in processing speeds and task management. This stellar processor unleashes unparalleled power and efficiency, ensuring every task, from data processing to application responsiveness, is executed flawlessly. Experience fewer delays, reduced lag, and a device that's ever-ready to meet high-demand tasks, taking business productivity to celestial heights. It's not just speed; it's the future of processing.

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Expansive Memory Capabilities

Memory Mastery for Seamless Task Execution

Armed with a prodigious memory, the ME74 stands prepared for any task, storing and processing data at lightning speeds. Whether you're dealing with mammoth-sized files or multitasking between diverse applications, the device manages all with sublime ease, ensuring zero slowdowns. Say goodbye to the frustrations of lag and embrace an era where data access feels as swift as thought.



Pinnacle of Touchscreen Technology

Brilliance Redefined with the 4.3 Touch Screen

Step into the future with ME74's exceptional 4.3 touch screen, designed to offer clarity like never before. With impeccable responsiveness, whether you're working with wet hands or using gloves, the device responds with pinpoint accuracy. Its vibrant display breathes life into visuals when working with apps and OS, making tasks not just a routine but a visual treat.



Built to Withstand the Odds

Unyielding Ultra-Rugged Design for the Toughest Environments

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WiFi 6: The New Age of Connectivity

Wireless Wonder with WiFi 6 Excellence

Enter the new age of wireless connection with ME74's WiFi 6. Designed for modern warehouses, this technology guarantees speed, reliability, and seamless data transfer. With its advanced Seamless Roaming feature, move around vast spaces without ever losing your connection or compromising data integrity. It's the future, delivered today.



Precision Scanning like Never Before

Advanced Scanning with Zebra and Honeywell Modules

The ME74 boasts state-of-the-art scanning modules from industry giants, Zebra and Honeywell. Whether you're scanning from an angle, a distance, or dealing with worn-out barcodes, these modules promise accuracy. The long-range scanning module, capable of reading barcodes up to 20 meters away, is a game-changer for high-shelf warehouse operations. Step into an age where every scan counts.



Ready for the Extremes

Operate Anywhere: From Freezing Zones to Tropical Climates

Built for extreme conditions, the ME74 can operate smoothly in temperatures as low as -30°C. Whether you're in a frozen warehouse or the sweltering outdoors, this device promises unwavering performance. It's more than a device; it's a commitment to operational excellence, no matter where you are.



Durable Charging with Pogo Pins

Endurance Excellence with 8 Pogo Pin Charging

The ME74 introduces a revolution in charging with its durable 8 Pogo pins. Unlike traditional USB connectors that wear out, these pins guarantee longevity, ensuring your device remains charged and ready for action. Embrace a future where charging is efficient, long-lasting, and reliable.



BT5.2: Connectivity Redefined

Swift and Efficient BT5.2 Experience

ME74's BT5.2 ensures that your device communicates with peripherals, such as mobile printers and headsets, with unmatched efficiency. With reduced power consumption and faster data transfer, enjoy seamless interactions and operations. Step into a world where connectivity knows no bounds.



Capture the World with Clarity

Dual Camera Marvel: Front 8MP & Rear 13MP

Harness the power of visuals with ME74's two impeccable cameras. Whether you're photographing products, documenting shipments, or capturing crucial moments, the device's cameras ensure every detail is captured with precision. In a world where every image matters, make sure yours stands out.



Battery Brilliance with Hot Swap

Uninterrupted Operations Even on Battery Swap

The ME74 mobile computer stands out with its two types of the batteries: cold storage standard battery 5200 mAh featuring EnergyBooster+ technology, ensuring an impressive 20-hour work span. For the most demanding tasks, an additional high-capacity 6000 mAh optional battery extender device life beyond 24 hours. Its innovative Hot Swap function, supported by a 10F supercapacitor, keeps the device alive for 10 crucial minutes during battery exchanges, preserving data, settings, and connectivity. This seamless transition guarantees that not a second of productivity is lost, and no OS reboot is needed, allowing work to resume instantly.

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in the same application, right where you left off. The ME74's battery system is not just a power source, but a foundation for uninterrupted efficiency and operational confidence.



Cold Chain Resilience

ME74: Engineered for Extreme Environments

The ME74 mobile computer emerges as a stalwart ally in cold chain management, ingeniously designed to tackle the harsh demands of cold storage operations. Equipped with a heated scanner exit window and a robust 5200 mAh cold storage battery, the ME74 ensures uninterrupted performance in environments as frigid as -22° F (-30° C). Its intelligent temperature detection sensors and integrated heaters prevent condensation, safeguarding device integrity during drastic temperature shifts. With an IP67 rating, it repels water and dust, while its operational temperature range up to 140° F (60° C) confirms its versatility. The ME74 is not just cold-resistant—it's a beacon of reliability in the coldest corners of your workflow.



The Future of Keyboards

Three Removable Keyboards for Tailored Usage

The ME74 revolutionizes device input with three distinct, removable keyboards. Whether your tasks demand QWERTY configurations or a simple numeric pad, switching is a breeze. Unlike competitors that demand device replacement, ME74 offers versatility at your fingertips. Adaptability has a new name, and it's ME74.



Shadowwalk MDM Integration

Elevate Organizational Efficiency and Device Oversight

The ME74 seamlessly integrates with Shadowwalk MDM, tailored for holistic management and diagnostics of Android devices equipped with GMS (Google Mobile Services). The MEFERI MDM offers a comprehensive device overview—from OTA OS updates to app installations directly from Google Play. Enjoy the luxury of monitoring client devices, offering remote assistance, enforcing policies, and gaining insights from usage statistics. Make informed equipment and repair decisions, assess staff performance via device telemetry, and guarantee resource optimization. With options to launch MDM either on-premise or on your chosen cloud, ME74 and Shadowwalk promise security and organizational excellence.



ME74's OmniSoftware Suite

Optimized Device Performance with a Security Edge

Boost your ME74's capabilities and security with MEFERI's OmniSoftware Suite. This suite is not solely about protection; it's an all-inclusive set of tools. While GuardForce Android maintains premier

safety, defending against current threats with frequent updates and the newest Google security patches, the suite encompasses a plethora of utilities and applications. From customizing the scanner to modifying Android preferences and honing device tasks, OmniSoftware makes operations streamlined, accurate, and dynamic. Experience both fortified protection and improved user-friendliness, assuring your ME74 is primed for both performance and security.



ME74 Warranty Promise

Navigating Tech with Confidence and Support

The MEFERI ME74 offers more than cutting-edge features—it embodies a guarantee of unparalleled warranty and unwavering customer support. Our expert teams stand ready to address your issues and questions, delivering industry-leading service efficiency. With the ME74 Mobile Computer, traverse the technological landscape with confidence, reinforced by the best-in-class assistance.



ME74's Eco Compliance

Blending Top-tier Tech with Sustainable Practices

The ME74 stands as not only a symbol of innovative technology but also an emblem of sustainable development. Adhering to the RoHS Directive 2011/65/EU and its 2015/863 amendment, the ME74 champions environmental initiatives, incorporating electronics devoid of harmful substances. Meeting the EN IEC 63000:2018 criteria, it emphasizes both safety and ecological responsibility. Choose ME74, and harmonize top-grade performance with thoughtful environmental decisions.

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Physical Characteristics	
Dimensions	81.4 mm. x 220.2 mm. x 29.6 mm. 3.2 in. x 8.67 in. x 1.17 in.
Weight	470 g. / 16.58 oz.
Display	4.3 in. IPS, 800 x 480
Display Protection	Corning Gorilla Glass III, 1.1mm thickness. The tough and durable glass that provides exceptional scratch resistance and protection against impacts
Additional housing protection	Rubber inserts are strategically incorporated into the housing, specifically in areas where the mobile computer is most susceptible to impact, such as the corners and front part of the case. These inserts serve to provide additional screen protection.
Scanner Glass Protection	Strong Protection of Scanning Module's The special protective frame (monolith part of the housing) around the glass of the scanning module. It provides maximum protection of the glass of the scanning module from hard impacts, falls, and careless use. The protection frame can withstand strong impacts from hard objects.
Touch Panel	Multi-mode capacitive touch, wet hand operation and glove operation, the screen sinks to prevent the screen from falling and breaking.
Display brightness, NIT	450 NIT
Backlight	Luxibright technology consumes very little power, provides the best color reproduction, and viewing angles, no limitations for aspect ratios, better contrast levels, the best sunlight visibility, and true black colors.
Power	Freezer-rated battery with high-capacity 5200 mAh. Charges to 100% in up to 4 hours. EnergyBooster+ technology allows work up to 20 hours without charging (the test was performed at the interval of pressing the scan button every 3 seconds, and the screen is turned on and connected to a wireless network with constant ping.) <ul style="list-style-type: none"> ● Optional extended battery 6000mAh. Charges to 100% in up to 5.5 hours. ● Optional backup battery (supercapacitor 10F) All batteries support QC 3.0 quick charging.
Hot Swap Battery	The device features a "Hot Swap" battery mode, enabling a seamless battery exchange before complete discharge. The transition to the backup battery (10F CAP), facilitated by an IC chip during the battery swap, guarantees a minimum of 5 to 10 minutes of battery life. During this interval, the device enters a specialized standby mode, providing ample time to replace the battery without necessitating a full OS reboot. All Android system settings, including wireless network connections, are preserved; open applications remain active, and data integrity is maintained. Inserting a charged battery allows for immediate resumption of work, exactly where it was paused.
Special Cold-Chain Features	Heated Scanner Exit Window: Ensures clear scanning in low temperatures with robust condensation protection. Freezer-Rated Battery: A specialized 5200 mAh battery, engineered for peak cold-chain performance. Intelligent Temperature Detection: A Advanced sensors for optimal regulation of device and LCD temperatures.

	Condensation-Free Operation: Heating elements integrated to safeguard against moisture, ensuring a clear screen and scanner visibility. Motherboard Protection Technology: Advanced defense against condensation during frequent temperature transitions, preserving motherboard integrity.
Extend Memory	Micro SD x1, max support up to 512GB
SIM (5G) options	Standard: nano SIM x1 + eSIM x1 Option : nano SIM x1
Network Connections	WLAN (WiFi 6), WPAN (Bluetooth), Pogo Pin, USB 2.0, High Speed (Host and Client)
Notifications	Ring tone; three-color LED x1 (Charge: RGB; Scan: Red+Green); vibrate alert
Keypad Feature	Removable keyboards in three variants to choose from. All three keyboard options are compatible with any ME74 configuration and you can always replace the keyboard yourself or through service partners without replacing the device: <ul style="list-style-type: none"> ● QWERTY 39 keys (group of numeric buttons in the middle of the keyboard) ● QWERTY 39 keys (group of numeric buttons at the bottom of the keyboard) ● NUMERIC 31 keys
Buttons	Custom Button, Scan button L/R, volume button(+/-), power button
Voice and Audio	Dual denoise mic, 2W Speaker
Interface Ports	USB 2.0 with OTG + 6 Pogo pin

Performance Characteristics	
Processor	Qualcomm QCM4490, Octa-core 2.4 GHz (CPU model: QCM4490)
Operating System	Android 13 (GMS & AER) Upgradeable to Android 18
Memory	4GB LPDDR4 + 64GB UFS
Security Feature	Supports Verified Boot

User Environment	
Operating Temp	-30°C to 60°C -22°F to 140°F
Storage Temp	-40°C to 70°C -40°F to 158°F
Humidity	5% to 95% non-condensing
Sealing	IP67 class protection from water, dust, dirt

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Drop Test Report	5 ft./1.5 m. multiple drops to concrete over operating temp
Tumble Test Report	1000hits, 1.6ft./0.5m tumbles
Vibration	10000 rpm Min
Thermal Shock	-40°C to 75°C -40°F to 167°F
Electrostatic Discharge (ESD)	±15 kV air discharge; ±8 kV direct discharge

Sensors

Light Sensor	Adjusts display backlight brightness
Proximity Sensor	Disables display output and touch input when placed against head during a call
Magnetometer	eCompass to detect direction and orientation
Acceleration Sensor	3-axis accelerometer

Data Capture

Scanning	Zebra SE4710/SE4750SR/SE4850/SE4770, Honeywell HS7/EX30/N6803FR, Newland EM6000,MEFERI SE5070, Intelligent barcodes and image capture technology, lightning—fast data recognition and processing, optimized visualization provide ultra -fast scanning of printed and electronic 1D and 2D barcodes. PRZM technology in zebra scanners optic, best scanning.
Long Range Scanner	The Advanced FlexRange EX30 2D Scanning Mechanism (optional), designed for warehouse and distribution environments, seamlessly scans barcodes from as close as 5 cm up to 28 m [0.16 ft to 91.86 ft], utilizing cutting-edge quick auto-focus technology (performance varies based on ml and barcode type; refer to the specific scanner engine's specification sheet for details). Optional Advanced Long-Range Scanners include: Honeywell: EX30, Zebra: SE4850, Newland: EM6000
Camera	Front: 8MP; Rear: 13MP; Rear camera supports PDAF and 1080p video shooting. Support Torch mode and Flash mode.
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Reader mode,Card Emulation and P2P mode.

Wireless WAN (WWAN), Cellular - Data and Voice Communications

GPS	GPS, A-GPS, GLONASS, Galileo, Beidou
Cellular Standards	N/A

Radio Frequency Band	N/A
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Wireless LAN(WLAN), WiFi 6

WiFi-6 with Extra Benefit	Seamless Roaming —Unsurpassed Advantage of Uninterrupted Communication. ME74 Ultra-Rugged Mobile Computer Supports WiFi-6 with Seamless Roaming, Enabling Automatic Switching of Wi-Fi Signals Between Access Points Without Communication Interruptions or Data Loss.
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Radio	IEEE 802.11a/b/g/n/ac Wave 1&2 (160MHz)/d/e/h/i/k/r/v/w/ax, 802.11r, OKC, PMKID caching, IPv4, IPv6
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Data Rates	2.4GHz: 802.11b/g/n/ax - 20MHz up to 286.8Mbps 5GHz: 802.11a/n/ac/ax - 20MHz, 40MHz, 80MHz, 160MHz - up to 2402 Mbps 6GHz: 802.11ax - 20MHz, 40MHz, 80MHz, 160MHz- up to 2402 Mbps
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Operating Channels	Channel 1-13 (2401-2483 MHz): 1,2,3,4,5,6,7,8,9,10,11,12,13; Channel 36-165 (5150-5850 MHz): 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,144,149,153,157,161,165; Channel 1-233 (5925-7125 MHz); Channel Bandwidth: 20/40/80/160 MHz; Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency.
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Security and Encryption	WEP (40 or 104 bit); WPA/ WPA2 Personal (TKIP and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES)); WPA3 Enterprise (AES) — EAP-TTLS(PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPvOMSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD; WPA3 Enterprise 192-bit Mode (GCMP-256) — EAPTLS; Enhanced Open (OWE)
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Wireless PAN (WPAN)

Bluetooth	BT5.2+BR/EDR+BLE, Bluetooth profiles includes HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT
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Standard Accessories

Power Adapter (plug: EU, CN, US, GB); Battery 6000 mAh; USB Type-C Cable; Hand Strap.

Optional Accessories

Single Slot Cradle; 4-slot Battery Charger; 8-Slot Battery Charger; Battery 5200 mAh; Pistol Grip; Pistol Grip Strap; Shoulder Bag; Holster (for Gun); Screen Protector (Glass).
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General Certifications

GMS & AER Android Enterprise Recommended (Certified) with Google Mobile Services (GMS)——Enterprise API and actual updates available. Access to Android security updates for 90 days from the date of their release by Google for at least five years.



Environmental Compliance

The RoHS Directive 2011/65/EU, along with its amendment 2015/863, ensures that electrical and electronic products are free from hazardous substances. Compliance with the EN IEC 63000:2018 standard guarantees that products are safe for use and minimizes the environmental impact.

Additional Regulatory

US:

Electrical Safety	UL 60950-1
Radio Frequency Devices	47 CFR Part 15, Subpart B, Class B
Digital Apparatus	ICES-003 Issue 6, Class B

Europe:

Electrical Safety	EN 60950-1 2ed + A11 + A1 + A12 + A2:2013, IEC 60950-1 2ed + A1 + A2
Environmental	EN 55032 (Class B)
IT Immunity	EN 55024
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuation and Flicker	EN 61000-3-3

Warranty

MEFERI's hardware warranty statement governs the warranty coverage of the ME74, protecting it against any defects in workmanship and materials for a duration from the date of shipment: ME74 twelve (12) months; For detailed information regarding the warranty terms and conditions, please refer to the complete warranty statement available at: www.meferi.com/us-en/warranty

Recommended Services

MEFERI EasyPRO Service+

MEFERI Software Suite



OmniSoftware Suite

A comprehensive set of industry-specific utilities and applications, designed to unlock maximum productivity and efficiency on all MEFERI devices. Customizable, scalable, powerful.



OmniIndustry Apps Suite

Unleashing the power of industry-specific mobile apps, revolutionizing operations across sectors. Experience the transformative and customizable OmniIndustry AppSuite, of tailored applications for various industries, designed to streamline your operations.



Shadowwalk

Reliable assistant for corporate mobile devices. Mobile Device Management (MDM) Solution offering remote device management, streamlined administration, advanced diagnostic tools, and insightful telemetry data analytics. Designed for businesses seeking efficient, centralized control. Ideal for large Enterprises.

Dive deeper into its potential on our website.
www.meferi.com/us-en/products/meferi-software-suite

Partners Software Compatibility



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