

MC93^{ex}-NI Mobile Computer

for Zone 2/Div. 2 hazardous areas



BARTEC has developed in close cooperation with Zebra Technologies the next evolution of the world's best selling and most trusted enterprise mobile computer – the MC93^{ex}-NI for worldwide use in hazardous areas.

Users get simplicity with Android, ultimate processing power, a larger touch display, and much more. New data capture capabilities include an extraordinary scan range of up to 21.4 m.

The new battery runs nearly twice as long as the MC9200ex series on a single charge. The MC93^{ex}-NI is the most rugged mobile computer ever created, ready to outlast virtually every device in its class in any environment. The Mobility DNA solution from ZEBRA complements the MC93^{ex}-NI with a comprehensive suite of software solutions for easy setup, tools to increase productivity, business and management solutions and kits for software development of your own solutions.

You get reliable, first-class WLAN connectivity by the use of 2x2 MU-MIMO technology in combination with the Mobility DNA Worry Free WiFi solution.

The MC93^{ex}-NI is approved for ATEX and IECEx Zone 2/22 and UL Class I, II, III Div.2. Further local certifications are possible on customer request.

- Most proven ultra-rugged design
- Ultimate processing power
- Most battery power in its class
- Integrated barcode scanner with reading range of up to 21.4 m

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Explosion protection

Marking ATEX	☺ II 3G Ex ic op is IIC T6 Gc ☺ II 3D Ex ic op is IIIB T80 °C Dc IP 65	
Certification	EPS 19 ATEX 1 239 X	
Marking IECEx	Ex ic op is IIC T6 Gc Ex ic op is IIIB T80 °C Dc IP 65	
Certification	IECEx EPS 19.0108X	
Marking NEC	Class I, Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups F, G; Class III; T6	
Certification	UL E321557	
Further Certifications	CE, FCC/IC	
Other approvals and certificates, see		

www.bartec.com

User environment

Operating temperature	-20 °C to +50 °C (-4 °F to 122 °F)	
Charging temperature	0 °C to +45 °C (32°F to 113°F)	
Storage temperature (without battery)	-40 °C to +70 °C (-40 °F to 158 °F)	
Relative humidity	5 % ~ 95 % (non-condensing)	
Protection class (IEC 60529)	IP 65	
Drop Specification	3.1 m (122 inch) drops at room temperature per MIL-STD-810G, 2.4 m (94,5 inch) drops to concrete across temperature per MIL-STD-810G	
Tumble Specification	6.000 tumbles from a height of 1 m (39.4 inch); meets and exceeds IEC tumble specification	

Technical data

Processor	Qualcomm Snapdragon 660 octa-core 2.2 GHz	
Memory (RAM)	4 GB	
Mass storage	32 GB Flash pSLC	
Storage expansion	User accessible MicroSD up to 32 GB SDHC and up to 256 GB SDXC	
Operating system	Android 13™ Hardware supports future Android versions (up to Android 14™)	
	Configuration: Zebra's "Restricted Mode" can be set via StageNow, for control over Google Mobile Services (GMS) and other services.	
Size (W x L x H)	88 mm x 240mm x 189 mm (3.5 inch x 9.4 inch x 7.4 inch)	
Weight (with battery)	765 g (1.69 lb)	
Display	4.3" IPS Display with LED Backlight	
Resolution	800 x 400 pixel, WVGA	
Front glass	Corning Gorilla glass	
Touch function	Capactive Touch	
Usability	With stylus, finger or glove depending on the mode selected	

Battery	Lithium-ion battery 3.6 V/7000 mAh (25.2 Wh); Fast charging (charge from 0% to 90% in less than 3.5 hours with appropriate accessories); Hot swap battery backup with temporary session persistence (only in non Ex area)	
Notification	Audible tone; Multi-color LED bar (between keyboard & display), haptic feedback	
Voice & Audio	Speaker, Microphone, PTT Voice (Internal Speaker and Bluetooth Wireless Headset Support).	
Keypad	Backlit, Field replaceable keypads: – 53 Key alpha-numeric STD – 53 Key Terminal Emulation (VT) – 43 Key function numeric – 29 Key Numeric/Calculation	
Barcode capture	 SE4770-SR: 1D/2D standard range omnidirectional imager; Reading range up to 91.6 cm (35.8 inch) depending on type, size and quality of the barcode SE4850-ER: Extended range 1D/2D imaging engine; Reading range up to 21.4 m (842.5 inch) depending on type, size and quality of the barcode supported symbologies/barcodes: see table 	
NFC	Tap to Pair, ISO 14443 Type A and B, Felica and ISO 15693 cards, P2P mode and Card Emulation via Host (HCE) support	
Bluetooth	Class 2, Bluetooth V5.0 with BR/EDR and Bluetooth Low Energy (BLE) Support	
Sensor	3-axis Accelerometer with MEMS Gyro	
Mobility DNA	Mobility DNA solutions help you get more value out of our mobile computers by adding functionality aswell as simplifying deploy- ment and management of our mobile devices. For more information on these Zebra-only features, please visit zebra.com/mobilitydna	
PTT (Push-to-Talk) App	Powered by Zebra Technologies, BARTEC brings the enterprise-class push-to-talk ap- plication PTT Pro into hazardous areas. PTT Pro connects your workforce with enter- prise-class instant PTT and secure messaging services. It supports direct messaging, image, audio, and video -regardless of whether your users are carrying a BARTEC mobile device in hazardous areas, or their own Android or Windows device in non-hazardous areas. For more information see bartec.com	
Warranty	1 year for MC93∞-NI Mobile Computer 6 month for battery and accessories	
Service contracts	COMFORT and ALL-IN	
Scope of delivery	– MC93ª×-NI Mobile Computer – Standard battery – Quick start guide	
Also required	(not included in the delivery) – Base station or charging adapter for charging	

Android is a trademark of Google LLC.

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WLAN-WiFi

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi certified; IPv4, IPv6, 2x2 MU-MIMO	
Data Rates	5 GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4 GHz: 802.11b/g/n — up to 300 Mbps	
Operating Channels	Channel 1-13 (2412-2472 MHz); Channel 36-165 (5180-5825 MHz)	
Channel Bandwidth	20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency	
Security and Encryption	WPA3-Personal (SAE); WPA3-Enterprise; Enhanced Open - Based on opportunistic wireless encryption (OWE)*; WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP and AES); WPA/WPA2 Enterprise (TKIP and AES) - EAP- TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD	
	* Note that OWE is a separate Wi-Fi Alliance certification program and not WPA3	
Multimedia	Wi-Fi Multimedia (WMM and WMM-PS; Including TSPEC)	
Certifications	WFA (802.11n, WMM-PS, 802.11ac, PMF, WMM-AC, Voice Enterprise, WiFi Direct and WPS 2.0)	
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC	

Accessories

See datasheet: MC93^{ex_}NI Accessories It is absolutely necessary to use original accessories from BARTEC !

Ordering information

MC93^{ex}-NI with marking NEC Class I, II, III Div 2 for North America Supports only radio frequencies (channels/bandwidths) depending on regulatory rules of North America

Scanner: SE4770-SR; Keypad: 29 keys	B7-A2M2-PGHAG4NA
Scanner: SE4770-SR; Keypad: 43 keys	B7-A2M2-PGHCG4NA
Scanner: SE4770-SR; Keypad: 53 keys	B7-A2M2-PGHDG4NA
Scanner: SE4770-SR; Keypad: 53 keys - VT	B7-A2M2-PGHEG4NA
Scanner: SE4850-ER: Keypad: 29 keys	B7-A2M2-PGEAG4NA
Scanner: SE4850-ER: Keypad: 43 keys	B7-A2M2-PGECG4NA
Scanner: SE4850-ER: Keypad: 53 keys	B7-A2M2-PGEDG4NA
Scanner: SE4850-ER: Keypad: 53 keys - VT	B7-A2M2-PGEEG4NA

Ordering information

MC93^{ex}-NI with marking ATEX/IECEx Zone 2/22 for the rest of the world

Scanner: SE4770-SR; Keypad: 29 keys	B7-A2M3-PGHAG4RW
Scanner: SE4770-SR; Keypad: 43 keys	B7-A2M3-PGHCG4RW
Scanner: SE4770-SR; Keypad: 53 keys	B7-A2M3-PGHDG4RW
Scanner: SE4770-SR; Keypad: 53 keys - VT	B7-A2M3-PGHEG4RW
Scanner: SE4850-ER: Keypad: 29 keys	B7-A2M3-PGEAG4RW
Scanner: SE4850-ER: Keypad: 43 keys	B7-A2M3-PGECG4RW
Scanner: SE4850-ER: Keypad: 53 keys	B7-A2M3-PGEDG4RW
Scanner: SE4850-ER: Keypad: 53 keys - VT	B7-A2M3-PGEEG4RW

Supported Symbologies / Barcodes

1D/Linear Symbol/Codes	Codabar Code 11 Code 32 Code 39 Code 93 Code 128 Coupon Code Chinese 2 of 5 Discrete 2 of 5	EAN/JAN-8 EAN/JAN-13 GS1 DataBar GS1 DataBar Expanded GS1 DataBar Limited GS1-128 Interleaved 2 of 5 ISBT 128 Korean 3 of 5	Matrix 2 of 5 MSI UPCA UPCE UPC/EAN supplementals RSS-14 RSS Expanded RSS Limited Trioptic Code Webcode
2D Stacked and 2D Matrix Symbol/Codes	Aztec Code Codablock A Composite Codes Data Matrix	Dotcode MacroPDF417 Maxi Code MicroPDF417	Micro QR Code PDF417 QR Code TLC39
Postal Symbol/Codes	Australian Post (4-state) British Post (4-state) Canadian Post (4-state) Chinese 2 of 5	Japanese Post (4-state) Netherlands (KIX) Post Postnet US Planet	US Postnet UPU 4 State Postal FICS USPS 4 State Postal (US4CB)