

# Mobile Computer MC93<sup>ex</sup>-NI

## Datasheet



**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<sup>ex</sup>-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 twice as long as the MC9200ex series on a single charge. The MC93<sup>ex</sup>-NI is the most rugged mobile computer ever created, ready to outlast virtually every device in its class in any environment. The new software solutions from Zebra "Mobility DNA" help you get more value out of the MC93<sup>ex</sup>-NI by adding functionality as well as simplifying deployment and management, while delivering better-than-ever robust wireless connections.

The MC93<sup>ex</sup>-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.

**Kreski**

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**Więcej informacji: [www.kreski.pl](http://www.kreski.pl)**

## Explosion protection

Marking ATEX	Ex II 3G Ex ic op is IIC T6 Gc Ex 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 <a href="http://bartec.com">bartec.com</a>

## 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 with 32GB SDHC
Operating system	Android 10 with the ZEBRA's Restricted Mode for control over Google Mobile Services (GMS) and other services; Hardware is Android R compatible
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	Capacitive 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

### WLAN-WiFi

IEEE 802.11 a/b/g/n/ac/d/h/i/k/mc/r/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

### 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 as well as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features, please visit [www.zebra.com/mobilitydna](http://www.zebra.com/mobilitydna)

### PTT (Push-to-Talk) App

Powered by Zebra Technologies, BARTEC brings the enterprise-class push-to-talk application PTT Pro into hazardous areas. PTT Pro connects your workforce with enterprise-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](http://bartec.com)

Warranty	1 year
Service contracts	COMFORT and ALL-IN
Scope of delivery	Standard battery Quick start guide
Also required	(not included in the delivery) Base station or charging adapter for charging

### Accessories

See datasheet: MC93<sup>EX</sup>-NI Accessories

It is absolutely necessary to use original accessories from BARTEC !

### Supported Symbolologies / Barcodes

1D/Linear Symbol/Codes	<ul style="list-style-type: none"> <li>- UPCA</li> <li>- UPCE</li> <li>- Code 11</li> <li>- EAN/JAN-8</li> <li>- EAN/JAN-13</li> <li>- Chinese 2 of 5</li> <li>- Coupon Code</li> <li>- UPC/EAN supplementals</li> <li>- Korean 3 of 5</li> <li>- GS1 DataBar</li> <li>- GS1 DataBar Limited</li> <li>- Code 93</li> <li>- GS1 DataBar Expanded</li> <li>- Code 39</li> <li>- MSI</li> <li>- Code 128</li> <li>- Webcode</li> <li>- RSS-14</li> <li>- GS1-128</li> <li>- Interleaved 2 of 5</li> <li>- RSS Expanded</li> <li>- Matrix 2 of 5</li> <li>- ISBT 128</li> <li>- RSS Limited</li> <li>- Discrete 2 of 5</li> <li>- Trioptic Code</li> <li>- Code 32</li> <li>- Codabar</li> </ul>
2D Stacked and 2D Matrix Symbol/Codes	<ul style="list-style-type: none"> <li>- Aztec Code</li> <li>- TLC39</li> <li>- Data Matrix</li> <li>- Maxi Code</li> <li>- MacroPDF417</li> <li>- MicroPDF417</li> <li>- PDF417</li> <li>- Codablock A</li> <li>- Composite Codes</li> <li>- Micro QR Code</li> <li>- QR Code</li> <li>- Dotcode</li> </ul>
Postal Symbol/Codes	<ul style="list-style-type: none"> <li>- US Postnet</li> <li>- US Planet</li> <li>- Australian Post (4-state)</li> <li>- British Post (4-state)</li> <li>- Canadian Post (4-state)</li> <li>- Japanese Post (4-state)</li> <li>- Netherlands (KIX) Post</li> <li>- Postnet</li> <li>- Chinese 2 of 5</li> <li>- UPU 4 State Postal FICS</li> <li>- USPS 4 State Postal (US4CB)</li> </ul>

### Ordering information

MC93<sup>EX</sup>-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<sup>EX</sup>-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



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