

# Mobile Computer MC93ex-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 MC93ex-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 MC93ex-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.

#### **Explosion protection**

Ex II 3G Ex ic op is IIC T6 Gc Ex II 3D Ex ic op is IIIB T80 °C Dc IP 65
EPS 19 ATEX 1 239 X
Exic op is IIC T6 Gc Exic op is IIIB T80 °C Dc IP 65
IECEx EPS 19.0108X
Class I, Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups F, G; Class III; T6
UL E321557
CE, FCC/IC
Other approvals and certificates, see 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	4,000 1 m (39.4 inch) tumbles; meets and exceeds IEC tumble specification		

#### Technical data

Processor	Qualcomm Snapdragon 660acta-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 8.1 (Oreo) 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	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-SR: 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/r/k/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 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: WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP and AES) - EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD  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 aswell as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features, please visit www.zebra.com/mobilitydna
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

#### **Supported Symbologies / Barcodes**

#### 1D/Linear Symbol/Codes

- UPCA
- UPCE
- Code 11
- EAN/JAN-8
- EAN/JAN-13
- Chinese 2 of 5
- Coupon Code
- UPC/EAN supplementals
- Korean 3 of 5
- GS1 DataBar
- GS1 DataBar Limited
- Code 93
- GS1 DataBar Expanded
- Code 39
- MSI
- Code 128
- Webcode
- RSS-14
- GS1-128
- Interleaved 2 of 5
- RSS Expanded
- Matrix 2 of 5
- ISBT 128
- RSS Limited
- Discrete 2 of 5
- Trioptic Code
- Code 32
- Codabar

#### 2D Stacked and 2D Matrix Symbol/Codes

- Aztec Code
- TLC39
- Data Matrix
- Maxi Code
- MacroPDF417
- MicroPDF417
- PDF417
- Codablock A
- Composite Codes
- Micro QR Code
- QR Code
- Dotcode
- Postal Symbol/Codes
- US Postnet
- US Planet
- Australian Post (4-state)
- British Post (4-state)
- Canadian Post (4-state)
- Japanese Post (4-state) Netherlands (KIX) Post
- Postnet
- Chinese 2 of 5
- UPU 4 State Postal FICS
- USPS 4 State Postal (US4CB)

#### **Ordering information**

MC93ex-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**

MC93ex-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