

# MX9

## Ultra-rugged Mobile Computer

LXE | WORX | Mobile computers



The MX9 is perfect for use in ports and intermodal applications, outdoor logistics operations and any harsh environment where data collection is needed. Don't let its rugged exterior fool you - the MX9 is intelligent, flexible, and dependable.

What makes the MX9 an Ultra Rugged Handheld? A host of features including an IP67 rating, 1.8 meter drop tests to concrete, and the 2,000 cycle 1 meter tumble test make this LXE handheld ready for the harshest conditions imaginable. From cold stores to full-sun environments, the MX9 can handle just about anything.

The MX9 ships with a PXA 320 processor and industry leading Windows® CE 5.0 Professional. Options include WWAN with GPS receivers, choice of backlit keyboards and more. Data collection in any environment is no challenge for the MX9, the most advanced ultra rugged handheld in the industry.



### ULTRA-RUGGED

IP 67 rated, 1,8m drop to concrete, 2K 1m tumble test.

### GOES ANYWHERE

With WWAN radio and GPS options.

### CUSTOMISABLE

Fully mappable keyboard with 10 one-touch function keys.



OUTDOOR DISPLAY



IP 67



GPS



VOICE READY



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# MX9

## TECHNICAL SPECIFICATIONS



### PLATFORM

#### Processing & Memory

- PXA320, 800MHz
- 128MB SDRAM
- 128MB Flash
- SD expansion card to 4GB

#### Operating System

- Windows® CE 5.0 Professional
- Non-volatile storage of resident drivers, applications and settings

#### Display

- 94 mm colour QVGA
- Outdoor readable, transreflective
- Resistive touch screen with stylus

#### Keyboard

- Backlit keys
- 38-key numeric-alpha or 62-key alpha-numeric
- 10 dedicated function keys + user defined keys
- Fully keyboard mapping support
- TN5250 emulation overlay option on 62-key
- Durable, in-mold design

#### Power System & Management

- Full-shift battery life with typical usage
- Fast recovery backup power for data retention
- Main battery low warning
- Active power management (configurable)

#### Enclosure

- Weight: 963 g with scanner, 802.11, Bluetooth and hand strap
- Dimensions: 251mm x 99mm x 69mm
- User replaceable battery
- Rubber overmold

### CONNECTIVITY

#### Optional Software

- RFTerm® (TN5250, TN3270, VT220)
- Applock utility controls user application access & unwanted configuration changes
- Multiple localised languages
- Wavelink Avalanche™ and LXE eXpress config compatible

#### Interfaces

- USB Host & Client
- Powered RS-232
- Ethernet
- In-terminal charging
- Microphone
- Speaker with adjustable volume control
- Large scan status LEDs & power status LEDs

#### Radio

- 802.11b/g
- 802.11a/b/g
- Internal diversity antenna
- Bluetooth 2.0 + EDR
- WPA or WPA2 security
- WWAN, GSM/GPRS
- GPS receiver
- Cisco® CCXv4 certified

### RUGGEDNESS

#### Environmental

- Operating temperature: -20°C to +50°C
- Storage temperature: -20° to +70°C
- Humidity: 5 to 95% non-condensing
- Drop: 1.8m to concrete
- Tumble: 2,000, 1m tumble test
- IP Rating: IP67
- MIL STD 810F

#### Approvals

- Emissions: (EMI)  
FCC Part 15 Subpart B, Class A  
EN 55022, Class A (CISPR22)
- Immunity: (EMC)  
EN 55024: 1998

- Safety:  
UL 60950-1, CSA  
C22.2 No. 60950-1  
EN 60950, IEC 60950
- Laser Safety:  
21 CFR 1040.10, IEC 60825-1
- Battery Safety:  
UL 2054, IEEE 1725
- Radio:  
FCC Part 15 subpart C  
IC RSS210, 102  
EN 300 328  
China SRRC  
Singapore IDA  
Malaysia SIRIM
- Radio Safety:  
FCC O.E.T. Bulletin 65  
Industry Canada RSS 102  
EN 50360

### DATA CAPTURE

#### Bar Code

- Standard range laser
- All-range laser (102mm - 12m)
- 2D Imager
- Configurable Scan Vibration signal and easy view scan LEDs
- Full symbology support
- Image capture, VGA

### ACCESSORIES

- Trigger handle
- Desktop cradle with spare battery charging & Ethernet
- Active vehicle cradle
- 4-slot battery charger
- Vehicle power port adapter
- Carry cases and Holsters for MX9

Download accessory catalogue at [www.lxe.com](http://www.lxe.com)



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# MX9CS for Cold Storage

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The MX9CS is perfect for use in all cold environments including refrigerated warehouses, cold climate ports and other outdoor logistics or cold storage operations where data collection is needed. Don't let its rugged exterior fool you - the MX9CS is intelligent, flexible and dependable.

When you need an ultra rugged handheld that withstands temperatures down to -30°C, the MX9CS is it. With an IP67 rating this ultra rugged handheld from LXE is ready for the most extreme environments imaginable. From built-in heaters to lowtemp batteries, the MX9CS easily adapts from normal temperature ranges to cold conditions.

The MX9CS has unique features such as heater on/off control and 10 function keys. Like the regular MX9 the MX9CS ships with a PXA 320 processor and industry leading Windows® CE 5.0 Professional. Options include WWAN with GPS receivers, choice of backlit keyboards and more.



## DESIGNED FOR COLD STORES

No fog, no frost, no condensation.

## ULTRA-RUGGED

IP 67 rated, 1,8m drop to concrete, 2K 1m tumble test.

## CUSTOMISABLE

Fully mappable keyboard with 10 one-touch function keys.



OUTDOOR DISPLAY



-30°C



IP 67



GPS



VOICE READY



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# MX9CS

## TECHNICAL SPECIFICATIONS



### PLATFORM

#### Processing & Memory

- PXA320, 800MHz
- 128MB SDRAM
- 128MB Flash
- SD expansion card to 4GB

#### Operating System

- Windows® CE 5.0 Professional
- Non-volatile storage of resident drivers, applications and settings

#### Display

- 94 mm colour QVGA
- Outdoor readable, transreflective
- Resistive touch screen with stylus

#### Keyboard

- Backlit keys
- 38-key numeric-alpha or 62-key alpha-numeric
- 10 dedicated function keys + user defined keys
- Fully keyboard mapping support
- TN5250 emulation overlay option on 62-key
- Durable, in-mold design

#### Power System & Management

- Full-shift battery life (depends on usage and temperature)
- Fast recovery backup power for data retention
- Main battery low warning
- Active power management (configurable)

#### Enclosure

- Weight: 963 g with scanner, 802.11, Bluetooth and hand strap
- Dimensions: 251mm x 99mm x 69mm
- User replaceable battery
- Rubber overmold

### CONNECTIVITY

#### Optional Software

- RFTerm® (TN5250, TN3270, VT220)
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#### Radio

- 802.11b/g
- 802.11a/b/g
- Internal diversity antenna
- Bluetooth 2.0 + EDR
- WPA or WPA2 security
- WWAN, GSM/GPRS
- GPS receiver
- Cisco® CCXv4 certified

### RUGGEDNESS

#### Environmental

- Operating temperature: -30°C to +50°C with heater
- Storage temperature: -20° to +70°C
- Humidity: condensing
- Drop: 1.8m to concrete
- Tumble: 2,000, 1m tumble test
- IP Rating: IP67
- MIL STD 810F

#### Approvals

- Emissions: (EMI) FCC Part 15 Subpart B, Class A (CISPR22)
- Immunity: (EMC) EN 55024: 1998
- Safety: UL 60950-1, CSA C22.2 No. 60950-1 EN 60950, IEC 60950

- Laser Safety: 21 CFR 1040.10, IEC 60825-1
- Battery Safety: UL 2054, IEEE 1725
- Radio: FCC Part 15 subpart C IC RSS210, 102 EN 300 328 China SRRC Singapore IDA Malaysia SIRIM
- Radio Safety: FCC O.E.T. Bulletin 65 Industry Canada RSS 102 EN 50360

### DATA CAPTURE

#### Bar Code

- Standard range laser
- All-range laser (102mm - 12m)
- 2D Imager
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