





MC 75Ax ex-NI for ATEX/IECEx Zone 2 and 22

Features

- Option of WWAN-GSM-HSDPA/ CDMA-EVDO
- Optional GPS (only devices with GSM HSDPA or CDMA EVDO)
- WLAN radio standard IEEE 802.11 a/b/g Tri-mode radio standard
- Comprehensive voice-over IP support
- Various barcode applications with different scan engines
- Option of a 3.2 megapixels camera
- Easy battery changing
- Expanded storage capacity due to replaceable Micro SD card
- Various keypad variants
- Compatibility with the MC75Ax from Motorola

Description

The MC 75Axex-NI Mobile Computer is a 3.5G Worldwide Enterprise Digital Assistant (EDA) device and was specially modified by supplier for use in ATEX Zone 2 and Zone 22 hazardous areas. This means that the extensive communication options which are already standard in other areas are available to the user in hazardous areas also.

Its ergonomic design and easy operation make it an ideal support in attaining fast data availability in enterprise processes. A keypad is available in various variant versions for manual data capture.

Other available data capture options are an integrated 1D or 1D/2D Scan Engine for capturing bar codes and an optional 3.2 megapixel camera.

The ergonomically mounted scan triggers on the MC 75Axex-NI allow data to be captured easily in one-hand operation. Several technologies are available for data communication with other systems and company divisions.

- Wireless WAN (WWAN)
- Wireless LAN (WLAN)
- Wireless PAN (WPAN) (Bluetooth)
- IrDA connection

These modules, which are integrated in the device, allow a seamless transmission of voice and data and are easy to integrate into the company's network.

Further advantages when using it are its robust construction, easy-to-read 3.5" VGA colour display with touch technology and a high-performance lithium ion battery.

In the MC 75Axex-NI, the PXA320 processor with 806 MHz ensures fast process execution and the Microsoft® Windows Mobile® 6.5 operating system in conjunction with the Enterprise Mobility Developer Kit (EMDK) from Motorola facilitates an easy development of applications.

256 MB RAM integrated in the device and 1 GB flash memory are available for storing user-defined applications and data. For larger applications and volumes of data, we offer micro SD memory cards.

Market

Automobile industry

Automobile industry (suppliers of paintwork, for paint shops, etc.)

Food and beverages

Suppliers of aromatic substances, etc.

Petrochemicals

from production through further processing to delivery

Pharmaceuticals

(suppliers of the individual components required for the production of e. g. medication)

Applications

Material flow monitoring

Production control

Supplier chain management

Incoming/outgoing goods, inventory management

Safety tests

Spare parts tracking

Maintenance/repair work

Workshop communication

Conformity verification

Task allocation

Users

Dispatch, receiving and stock management departments

Personnel who have been instructed on the handling of potentially explosive substances

Maintenance and repair

Personnel who have been instructed on work in potentially explosive substances.

Production area

Personnel who have been instructed on the handling of potentially explosive substances.



Mobile Computer MC 75Axex-NI for ATEX/IECEx Zone 2 and 22

The MC 75Axex-NI Mobile Computer recognises the following bar codes with the 1D Standard Range Scan Engine or the 1D/2D Imager Engine:

1D codes:

Code 11	Interleaved 2 of 5
Code 39	MSI
Code 93	UPC-A
Code 128	UPC-E
Codabar	UPC/EAN supplementals
Coupon Code	Trioptic 39
Chinese 2 of 5	RSS-14
Discrete 2 of 5	RSS Expanded
EAN-8	RSS Limited
EAN-13	Web code

2D codes: (only 1D/2D Imager Engine)

Aztec	(Macro) Micro PDF-417
Australian 4-state	Micro PDF-417
Canadian 4-state	Micro QR
Composite AB	Maxi Code
Composite C	QR Code
Chinese 2 of 5	TLC39
Data Matrix	UK 4-state
Dutch Kix	US Planet
Japanese 4-state	US Postnet
Macro PDF-417	USPS 4-state (US4CB)

Explosion protection

Ex protection type

⟨ II 3G Ex ic IIC T6 Gc⟨ II 3D Ex ic IIIC T80 °C Dc

Certification

EPS 12 ATEX 1481 X

IECEx

Ex ic IIC T6 Gc Ex ic IIID T80 °C Dc

Certification

WLAN:

IECEx EPS 12.0029 X

Technical data

Physical features

Dimensions (length x width x depth)

WWAN: 7 inch x 3.3 inch x 1.7 inch

178 mm x 84 mm x 44 mm

6 inch x 3.3 inch x 1.7 inch 152 mm x 84 mm x 44 mm

Weight (including 1.5 x battery)

WWAN version:

approx. 483 g (approx. 17.0 oz.)

WLAN version:

approx. 398 g (approx. 14.0 oz.)

Display

transflective colour 3.5" VGA display (640 x 480 pixels)

Touchscreen

glass analog-resistive touchscreen

Display backlighting

LED technology

Battery (1.5 x)

Rechargeable lithium ion battery (3.7 V, 3600 mAh, smart battery management)

optional: Battery (2.5 x)

(3.7 V, 4800 mAh, smart battery management)

Backup battery

NiMH battery (rechargeable), 15 mAh, 2.4 V (not accessible from outside)

Extension slot

Micro SD slot with SDHC support (up to 32 GB)

Network connections

Ethernet (via charging station); Full-speed USB, host or client

Signalling

Vibrator and LED

Keypad options

Numeric, QWERTY

Audio

VoWWAN; VoWLAN;

TEAM express-compatible; Support for wired and wireless (Bluetooth) headsets; Headset, handset and speaker modes

Interactive Sensor Technology

Three-axis accelerometer for motion-sensing applications for dynamic screen orientation, power monitoring and free-fall detection.

Performance characteristics

CPU

PXA320 processor at 806 MHz

Operating system

Microsoft® Windows Mobile® 6.5 (Classic or Professional)

Memory

256 MB RAM;1 GB Flash

Interface

RS232, USB 1.1

User environment

Operating temperature

-10 °C to +50 °C (-14 °F to +122 °F)

Storage temperature

-40 °C to +70 °C (without battery) -40 °F to +158 °F

Air humidity

95 %, non-condensing

Protection class

IP 54



Mobile Computer MC 75Axex-NI for ATEX/IECEx Zone 2 and 22

IrDA

Infrared port for connection to printers and other devices

Light immunity (readability)

Incandescent lamps 4,844 lux Sunlight 86.111 lux Fluorescent lamps 4,844 lux

Battery performance

Standby time

150 hours

Talk time

5 hours

Voice and data communication over wireless WAN

WWAN wireless modul GPS

option of GSM-HSDPA or CDMA-EVDO

Integrated stand-alone or assisted GPS (A-GPS) through SUPL; SiRFstarIII GSC3f/L chip set

■ over wireless LAN

WLAN wireless module

Tri-mode IEEE® 802.11a/b/g

Supported data transmission rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps

Operating channels

Channels 8 - 165 (5040 - 5825 MHz) Channels 1 - 13 (2412 - 2472 MHz) Channel 14 (2484 MHz) Japan only

The actual operating channels and frequencies depend on the applicable rules and certification authorities.

Security

WPA2, WEP (40 or 128 bits), TKIP, TLS, TTLS (MS-CHAP), TTLS (MS-CHAP Ver. 2), TTLS (CHAP), TTLS-MD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAPv2), AES LEAP, CCXv4 certification, FIPS-140-2 certification

Antenna

internal for LAN, external for WAN

Voice communication

Voice-over IP integrated and ready (P2P, PBX, PTT), WLAN to IEEE 802.11a/b/g with Wi-Fi™ certification and DSSS

■ over wireless PAN

Bluetooth

Class II, Version 2.1 with EDR (Enhanced Data Rate); integrated antenna

Data capture options

Scanning

1D Laser Scanner; 1D/2D Imager; autofocus flash-enabled colour camera (3.2-megapixels) and decoding software for bar codes

Four available options

1D Laser Scanner 1D/2D Imager 1D Laser Scanner and camera 1D/2D Imager and camera

Colour camera

Resolution

3.2 megapixels

Illumination

Flash (user-controllable)

Lens

Autofocus

1D Laser Scanner (SE950)

Range on 100 % UPC-A

60 cm

Resolution

4 mm minimum width

± 35° from the vertical

Pitch angle

± 65° from normal

Skew tolerance

± 50° from normal

Ambient light immunity

107.640 lux

Scan rate

104 (±12) scans/sec. (bi-directional)

Scan angle

 $47^{\circ} \pm 3^{\circ}$ standard $35^{\circ} \pm 3^{\circ}$ reduced

1D/2D Imager (SE4500SR)

Focal distance

From the centre of the scan window: SR - 19 cm

Sensor resolution

752 x 480 pixels

Field of view

Horizontal 40° Vertical 25°

Skew tolerance

± 60°

Pitch tolerance

 $\pm 60^{\circ}$

Roll tolerance

360°

Ambient light immunity

96,900 lux

Aiming LED (VLD)

655 ± 10 nm laser

Illumination element (LED)

 $625 \pm 5 \text{ Nm LEDs } (2x)$

Delivery includes

1 x MC 75Axex-NI

1 x battery 1.5 x

1 x battery door

1 x Stylus

1 x User Manual

Order no. B7-A273- S/W

MC 75Axex-NI including Li-ion battery 1.5 x (1 pc.) and battery door. The complete order number can be requested by your local sales representative.