



MC 75Ax^{ex}-NI for Class I, II Div. 2, Class III

Features

- Option of WWAN-GSM-HSDPA/ CDMA-EVD0
- Optional GPS (only Geräte 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

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

edication 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.

Description

The MC 75Ax^{ex}-NI Mobile Computer is a 3.5G Worldwide Enterprise Digital Assistant (EDA) device and was specially modified by supplier for use in UL Class I, II Division 2 and Class III 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 75Ax^{ex}-NI allow data to be captured easily in onehand 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 75Ax^{ex}-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.

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

1D codes:

Code 11UPCACode 39UPCECode 93UPC/EAN supplementalsCode 128Trioptic 39CodabarGS1 DatabarCoupon CodeGS1 Databar ExpandedChinese 2 of 5GS1 Databar Expanded StackedDiscrete 2 of 5GS1 Databar StackedEAN-8GS1 Databar LimitedInterleaved 2 of 5GS1 Databar Truncated		
Code 93 UPC/EAN supplementals Code 128 Trioptic 39 Codabar GS1 Databar Coupon Code GS1 Databar Expanded Chinese 2 of 5 GS1 Databar Stacked Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Limited	Code 11	UPCA
Code 128 Trioptic 39 Codabar GS1 Databar Coupon Code GS1 Databar Expanded Chinese 2 of 5 GS1 Databar Stacked Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Limited	Code 39	UPCE
Codabar GS1 Databar Coupon Code GS1 Databar Expanded Chinese 2 of 5 GS1 Databar Expanded Stacked Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Limited	Code 93	UPC/EAN supplementals
Coupon Code GS1 Databar Expanded Chinese 2 of 5 GS1 Databar Expanded Stacked Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Stacked Omni EAN-13 GS1 Databar Limited	Code 128	Trioptic 39
Chinese 2 of 5 GS1 Databar Expanded Stacked Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Stacked Omni EAN-13 GS1 Databar Limited	Codabar	GS1 Databar
Discrete 2 of 5 GS1 Databar Stacked EAN-8 GS1 Databar Stacked Omni EAN-13 GS1 Databar Limited	Coupon Code	GS1 Databar Expanded
EAN-8 GS1 Databar Stacked Omni EAN-13 GS1 Databar Limited	Chinese 2 of 5	GS1 Databar Expanded Stacked
EAN-13 GS1 Databar Limited	Discrete 2 of 5	GS1 Databar Stacked
	EAN-8	GS1 Databar Stacked Omni
Interleaved 2 of 5 GS1 Databar Truncated	EAN-13	GS1 Databar Limited
	Interleaved 2 of 5	GS1 Databar Truncated

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

Webcode
(Macro) Micro PDF-417
Micro PDF-417
PDF 417
Maxi Code
QR Code
TLC39
UK 4-state
US Planet
US Postnet
USPS 4-state (US4CB)

🔁 Explosionsschutz

Ex protection type

Class I, Groups A, B, C and D Class II, Groups F and G Class III Temperature class T6

Certification

UL File E321557 Vol. 1 Sec. 3

🔰 Technical data

Physical features

 Dimensions
 (height x width x depth)

 WWAN:
 7 inch x 3.3 inch x 1.7 inch

 178 mm x 84 mm x 44 mm

 WLAN:
 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. 423 g (approx. 14.9 oz.) WLAN version: approx. 398 g (approx. 14.0 oz.)

Display

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

Touchscreen

glass analog-resistive touchscreen

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)

Network connections

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

Signalling

Vibrator and LED

Keyboard 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 with 806 MHz

Operating system

Microsoft[®] Windows Mobile[®] 6.5 MC 75A0^{ex}-NI: Classic MC 75A6^{ex}-NI: Professional MC 75A8^{ex}-NI: Professional

Memory

256 MB RAM; 1 GB Flash

Extension slot

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

Interface

RS232, USB 1.1



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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

5 % to 95 %, non-condensing

Protection class

IP 54

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

Roll

± 35° from the vertical

Pitch angle ± 65° from normal

Skew tolerance ± 50° from normal

Ambient light immunity 107.644 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 (H x V grayscale)
- Field of view Horizontal 40° Vertical 25°

Skew tolerance $\pm 60^{\circ}$

Pitch tolerance $+60^{\circ}$

Roll tolerance 360°

Ambient light immunity 96,900 lux

Aiming LED (VLD) 655 ± 10 nm laser

Illumination element (LED)

 625 ± 5 Nm LEDs (2 x)

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-A272- S/W

RA9W00

MC 75Ax^{ex}-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.

4 mil minimum width