

nordicidmorphic

Nordic ID Morphic is just the tool for item-level RFID projects in the shop floor level and supply chain. You can use the Nordic ID Morphic in real life RFID shops for more than a working day with a single charge. Besides from Wi-Fi communication, 3G functionality makes it the most suitable device for supply and logistics RFID projects. The offered functionalities make Nordic ID Morphic an all-around tool for professional use both indoors and outdoors in a small and ergonomic package.

Nordic ID Morphic -series include: Nordic ID Morphic UHF RFID, Nordic ID Morphic and Nordic ID Morphic Batch. Each device is flexible by design, allowing customers to select from various identification and communication options to meet their organization's specific needs.



PRODUCT VERSIONS

NORDIC ID MORPHIC UHF RFID



NORDIC ID MORPHIC



NORDIC ID MORPHIC BATCH



LASER
or
2D
IMAGER

3G
HSDPA
900/2100

GPS
Assisted GPS

WLAN
802.11 b/g
WPA2

BLUETOOTH
2.0
+ EDR Class 2

WINDOWS
CE 6.0

USB &
ETHERNET
via Charger

IDENTIFICATION

UHF RFID	Supported standard: ISO 18000-6C (EPC Class 1 Gen 2) Frequency ETSI 865.6 - 867.6 MHz or FCC/IC 902 - 928 MHz RF Power: ERP +10 dBm (10 mW) Nominal reading range: 50 cm
1D Laser	GS1 databar compatibility Adaptive Auto-Range Laser (standard-, long- and auto-range) Normal, hold to aim and hold down modes Enhanced aiming mode (automatic switching between scan line / aiming dot) Reading confirmation via beeper and vibration for noisy environments Configurable scan alert sounds
2D Imager	GS1 databar compatibility High visibility LED aimer 2 character pre and post fixes, padding, replacement Video preview Reading confirmation via beeper and vibration for noisy environments Configurable scan alert sounds

PLATFORM

CPU	ARM11 532 MHz
Operating system	Microsoft® Windows® Embedded CE 6.0
Memory	256 MB DDR RAM 288 MB Flash (256 MB user accessible) microSD card slot (SDHC compatible)

PRODUCT HIGHLIGHTS

- Smallest UHF RFID mobile computer
- Intuitive user interface
- Windows® CE operating system and standard browser
- 2 year warranty
- Multiple communication options
- Ergonomic design
- One hand operation
- Compact size and light weight
- Robust
- Sharp and bright colour display

ACCESSORIES

- Universal wall adapter
- Desktop charger with USB and Ethernet
- Extra battery (charging in desktop charger)
- Handstrap and stylus

PREINSTALLED APPLICATIONS

- NID Keypad: individual key settings
- NID Menu: autostart options
- NID Indicators: signal strength/battery level

USER INTERFACE

Display	2,2" QVGA touch screen, 240 x 320 pixels adjustable backlight
Keypad	21 keys Adjustable key backlight
Audio	Integrated receiver, microphone, speaker
Signals and indicators	Vibration alert Battery status indicator (LED)

COMMUNICATION

Wireless WAN	3G UMTS / HSDPA (900/2100 MHz) GSM / GPRS / EDGE (900/1800 MHz) (optional)
GPS	Assisted GPS (optional)
Wireless LAN	IEEE 802.11 b/g
WLAN security	Standards: WEP, WPA, WPA2 Encryption: WEP, TKIP, AES
Wireless PAN	Bluetooth Class 2.0 + EDR
LAN	Ethernet 10/100 via charger
PAN	USB via charger

POWER

Battery	Rechargeable Li-Polymer 1130 mAh, 3.7 V
Charging	Average charging time 0 - 90%: 1,5 h Average charging time 0 - 100%: 3 h Desktop charger
External power supply	AC adapter for desktop charger
Backup battery / batteries	<ul style="list-style-type: none"> Back-up battery for RAM: maintains memory contents for 8 hours Back-up battery for real-time clock: keeps time for 200 days

SIZE AND WEIGHT

Dimensions	147 x 54 x 35 mm
Weight	170 g (incl. battery)

DROP AND SHOCK

Drop and impact resistance (drops onto concrete)	1.5 m				
ESD	<table border="0"> <tr> <td>Contacts</td> <td>+/- 4kVdc</td> </tr> <tr> <td>Air discharge</td> <td>+/- 8kVdc</td> </tr> </table>	Contacts	+/- 4kVdc	Air discharge	+/- 8kVdc
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ENVIRONMENT

Environmental sealing	IP54 - dust and water splash protected						
Temperature	<table border="0"> <tr> <td>Operating</td> <td>-20° to +55° C</td> </tr> <tr> <td>Storage</td> <td>-20° to +60° C</td> </tr> <tr> <td>Charging</td> <td>0° to +40° C</td> </tr> </table>	Operating	-20° to +55° C	Storage	-20° to +60° C	Charging	0° to +40° C
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Relative humidity	10% to 95% non-condensing						

All information is subject to change without prior notice.

- NID Scanner: barcode type settings
- NID LinkWatchdog: connection verification
- NID SNTP Service: time synchronisation
- NID WWAN settings
- Internet Explorer 6 with full screen

OPTIONAL APPLICATIONS

- Nordic ID Thin Client
- Naurtech terminal emulation CETerm
- Naurtech SAP browser
- Netop remote management

SOFTWARE DEVELOPMENT ENVIRONMENT

For all developers:

- USB driver and Microsoft Active sync + remote display
- Nordic ID MHL hardware abstraction layer
- Nordic ID Sample applications and source code
- Nordic ID UHF RFID API
- Nordic ID Customizer

For .Net (C#, VB etc)

- Microsoft Visual Studio 2005 and 2008
- .NET Compact Framework 2.0 and 3.5
- Nordic ID SDK
- MHL API wrapper for .NET
- OpenCF .NET

For C++

- Nordic ID SDK
- MHL API
- NUR API
- Header file

For HTML

- Nordic ID Sample applications



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