

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



| | | | | | | | |
|-----------------|---------------------------|--------------------------------|----------------------------|-----------------------------------|--|-----------------------|--|
| UHF RFID | 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 | Contacts | +/- 4kVdc |
| | Air discharge | +/- 8kVdc |
| ENVIRONMENT | | |
| Environmental sealing | IP54 - dust and water splash protected | |
| Temperature | Operating | -20° to +55° C |
| | Storage | -20° to +60° C |
| | Charging | 0° to +40° C |
| 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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