

NORDIC ID MORPHIC

Nordic ID Morphic is the most compact mobile computer in our product portfolio. It is easy to carry along and convenient to use due to its small size and intuitive yet simple keyboard layout. It is a robust, pocket sized option for fast UHF RFID and barcode reading.



PRODUCT VARIANTS

NORDIC ID MORPHIC
UHF RFID CROSS DIPOLE



NORDIC ID MORPHIC



NORDIC ID MORPHIC
BATCH



UHF RFID IDENTIFICATION

NORDIC ID MORPHIC
UHF RFID CROSS DIPOLE

Supported standard: ISO 18000-63 (EPC Class 1 Gen2 V2)
AES authentication in accordance with ISO/IEC 29167-10 supported
Frequency: ETSI 865.6–867.6 MHz or FCC/IC 902–928 MHz
RF Power: ERP +27 dBm (500 mW)
Nominal reading range: 2.5 m
Foldable RFID antenna with Use & Carry positions

BARCODE IDENTIFICATION

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

- Pocket size portability
- Single-hand operation
- Versatile data collection options

PREINSTALLED APPLICATIONS

- NID Keypad: individual key settings
- NID Menu: autostart options
- NID Indicators: signal strength/battery level
- 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 CE Term
- Naurtech SAP browser

USER INTERFACE

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

CONNECTIVITY

Wireless WAN	3G UMTS / HSDPA (900/2100 MHz) GSM / GPRS / EDGE (900/1800 MHz) (optional)
GPS	Assisted GPS (optional)
Wireless LAN	IEEE 802.11 a/b/g/n (not available on Batch version))
WLAN security	Standards: WEP, WPA, WPA2 Encryption: WEP, TKIP, AES
Wireless PAN	Bluetooth Class 2.1 + EDR (not available on Batch version)
LAN	Ethernet 10/100 via charger
PAN	USB via charger

POWER

Battery	Rechargeable Li-Polymer 3.7 V 1200 mAh, (2400 mAh on Cross Dipole)
Charging	Average charging time 0-90%: 1,5 h (3 h on Cross Dipole) Average charging time 0-100%: 3 h (4,5 h on Cross Dipole) 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 (H x W x D)	Nordic ID Morphic: 147 x 54 x 35 mm / 5.8 x 2.1 x 1.4 inch Nordic ID Morphic Cross Dipole: 147 x 60 x 39 mm (carry) / 115 mm (use) 5.8 x 2.4 x 1.5 inch (carry) / 4.5 inch (use)
Weight	170 g / 6 oz (incl. battery) / Cross Dipole 235 g / 8.3 oz (incl. battery)

DROP AND SHOCK

Drop and impact resistance (drops onto concrete)	1.5 m / 4.1 ft				
ESD	<table border="1"> <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="1"> <tr> <td>Operating</td> <td>-10 to +55 °C</td> <td>-4 to 130 °F</td> </tr> <tr> <td>Storage</td> <td>-10 to +60 °C</td> <td>-4 to +140 °F</td> </tr> <tr> <td>Charging</td> <td>0 to +40 °C</td> <td>+32 to +104 °F</td> </tr> </table>	Operating	-10 to +55 °C	-4 to 130 °F	Storage	-10 to +60 °C	-4 to +140 °F	Charging	0 to +40 °C	+32 to +104 °F
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Relative humidity	10% to 95% non-condensing									

All information is subject to change without prior notice. Availability of product variants may vary regionally.

SOFTWARE DEVELOPMENT ENVIRONMENT

FOR ALL DEVELOPERS

- SDK for Microsoft Visual Studio 2005 and 2008
- Nordic ID MHL hardware abstraction layer
- Nordic ID UHF RFID API
- Nordic ID Sample applications and source code
- Nordic ID Customizer

FOR .NET (C#, VB ETC)

- .NET Compact Framework 2.0 and 3.5
- MHL API wrapper for .NET
- OpenCF .NET
- OpenNETCF - Smart Device Framework

FOR C++

- NUR API
- MHL API

FOR HTML

- Nordic ID Sample Applications

ENVIRONMENT

- Free support during and after 2 year warranty time
- Maintenance service and extended maintenance contract
- Software customization and development support
- Technology, product and integration training
- Technology and project consultation
- Project management services

WARRANTY

- 2 year warranty
- Free technical support during and after 2 year warranty

