

nordicidmorphic

Nordic ID Morphic UHF RFID Cross Dipole  
- Pocket size portability with big gun performance

The smallest and lightest UHF RFID reader in the market, finishes RFID inventory in minutes and still fits your pocket. With innovative foldaway Cross Dipole antenna construction, the reading angle of tags is no more relevant. The Cross Dipole antenna enables reading distances up to 2.5 meters and when folded away the unit still fits in your pocket. The champion performer optimizes intuitive use while providing robust features, offering fast track to productivity and quick ROI.

Nordic ID Morphic UHF RFID Cross Dipole is equipped with a UHF RFID reader and a laser scanner. It communicates via WLAN, 3G, Bluetooth, USB and Ethernet. The unit comes with a powerful battery (LiPo 2260 mAh) enabling up to 9h continuous RFID use.

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 shop 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.



LASER  
or  
2D  
IMAGER

3G  
HSDPA  
900/2100

GSM  
GPRS/EDGE  
900/1800

WLAN  
802.11 a/b/g/n  
WPA2

BLUETOOTH  
2.1  
+ EDR Class 2

WINDOWS  
CE 6.0

USB &  
ETHERNET  
via Charger

IDENTIFICATION	
UHF RFID Cross Dipole	Supported standard: ISO 18000-6C (EPC Class 1 Gen 2) Frequency 868 or 915 MHz RF Power: ERP +27 dBm (500 mW) Nominal reading range: 2.5 m Nominal inventory speed: 150 tags per second
1D Laser	GS1 databar compatibility Bidirectional Normal, hold to aim and hold down modes 2 character pre and post fixes, padding, replacement Reading confirmation via beeper and vibration for noisy enviroments 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 enviroments 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)
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)

- PRODUCT HIGHLIGHTS
- Smallest 0.5W UHF RFID mobile computer
  - Foldable RFID antenna
  - 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 strenght/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

COMMUNICATION		
Wireless WAN		UMTS / HSDPA (900/2100 MHz), GSM / GPRS / EDGE (900/1800 MHz) (optional)
Wireless LAN		IEEE 802.11 a/b/g/n (optional)
WLAN security		Standards: WEP, WPA, WPA2 Encryption: WEP, TKIP, AES
Wireless PAN		Bluetooth Class 2.1 + EDR
LAN		Ethernet 10/100 via charger
PAN		USB via charger
POWER		
Battery		Rechargeable Li-Polymer 2260 mAh, 3.7 V
Charging		Average charging time 0 - 90%: 3 h Average charging time 0 - 100%: 4,5 h Desktop charger
External power supply		AC adapter for desktop charger
Backup battery / batteries		<ul style="list-style-type: none"><li>• Back-up battery for RAM: maintains memory contents for 8 hours</li><li>• Back-up battery for real-time clock: keeps time for 200 days</li></ul>
SIZE AND WEIGHT		
Dimensions		147 x 60 x 39 (carry) / 115 (use) mm
Weight		235 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

- 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 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

All information is subject to change without prior notice.



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