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nordicidmerlin

Nordic ID Merlin is a robust, high performance RFID handheld reader with future-proof, backwards-compatible design. Ideal for a variety of production uses and commercial applications, Nordic ID Merlin -series include: Nordic ID Merlin UHF RFID, Nordic ID Merlin Cross Dipole and Nordic ID Merlin HF RFID. Each device is flexible by design, allowing customers to select from various identification and communication options to meet their organization's specific needs.

PRODUCT HIGHLIGHTS

- Multiple identification and communication options
- High performance UHF RFID
- Robust and outdoor usable
- Long operating hours
- Available in custom colours
- 2 years warranty
- 5+ years product support

SALES PACKAGE CONTENTS

- Nordic ID Merlin mobile computer
- Battery
- Hand strap
- Stylus with tether
- Quick guide

OPTIONAL ACCESSORIES

- Desktop/Vehicle charging cradle with USB connection including power supply (EU, UK, US)
- DC adapter with cigarette lighter connector
- Desktop charging cradle with USB and Ethernet connectors and spare battery charging slot including power supply (EU, UK, US)
- 4 slot desktop charger including power supply
- 5 slot battery charger including power supply (EU, UK, US)
- Holsters and protective covers
- Pistol grip

SERVICES

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

PREINSTALLED SOFTWARE

APPLICATIONS

- Microsoft applications:
- Internet Explorer web browser
 - Wordpad

NORDIC ID APPLICATIONS

- Display rotate
- Registry backup
- IP config
- Version tool
- NID Menu

PLATFORM	
CPU	ARM11™ 532 MHz
Operating system	Microsoft® Windows® Embedded CE 6.0 r3 (English)
Memory	<ul style="list-style-type: none"> • 256 MB DDR RAM • 288 MB Flash (256 MB user accessible) • microSD card slot (SDHC compatible)
POWER	
Battery	<ul style="list-style-type: none"> • Rechargeable, removable Lithium-Ion battery pack 2600 mAh @ 7.4V • Double battery available in pistol grip versions
Desktop charger	<ul style="list-style-type: none"> • Desktop charging cradle with USB connection • Desktop charging cradle with spare battery charging slot (Ethernet and USB)
AC adapter for desktop charger	<ul style="list-style-type: none"> • Input: 100-240 VAC, 1A, 50-60 Hz, Power cable for EU, UK or US • Output: 24 VDC, 1.3A, 31.2 W
Backup-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
USER INTERFACE	
Display	<ul style="list-style-type: none"> • 53.6 x 71.5 mm (3.5") TFT-LCD • 320 x 240 pixels (QVGA), 262 144 colours • Adjustable LED backlight • Daylight readable • Touch panel
Keypad	<ul style="list-style-type: none"> • Numeric (alpha) keypad • 29 distinguished buttons (0-9 (alpha), scan, ok, del, tab, esc, shift, alt, 3 mode keys, 6 navigation keys) • Keyboard backlight with individual control for each key
Signals and indicators	<ul style="list-style-type: none"> • Buzzer for audible signals • Battery charging indicator LED • Programmable led

SIZE AND WEIGHT	
Dimensions	Cross Dipole: 250 x 175 x 105 mm UHF/HF RFID: 250 x 47x 90 mm Other models: 230 x 47 x 90 mm
Weight	Cross Dipole: ~ 750g UHF/HF RFID: ~ 550g Other models: ~ 450g
DROP AND SHOCK	
Drop and impact resistance	IEC-60950-1 multiple 1.6 m drops onto concrete on all axis
Tumble	1000 0,5 m tumbles
ESD	+/- 4kVdc contacts, +/- 8kVdc air discharge
ENVIRONMENTAL REQUIREMENTS	
Environmental sealing	IP54 - dust and water splash protected
Temperature	Operating -20° to 60° C Storage -20° to 60° C Charging 0° to 45° C
Relative humidity	10% to 90% non-condensing
COMMUNICATION	
Wireless WAN	GPRS 900/1800 (optional)
Wireless LAN	Summit Wi-Fi 802.11(a)/b/g, 802.11e (optional)
WLAN security	<ul style="list-style-type: none"> Standards: WEP, WPA, WPA2 (802.11) Encryption: WEP, TKIP, AES Encryption key provisioning: Static 40 bit, Static 128 bit, PSK, Dynamic 802.11X Authentication protocol: EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP
Wireless PAN	Bluetooth 2.0 + EDR, Class 2
LAN	Ethernet 10/100 via charger (optional)
PAN	USB 2.0 full speed client/host
AUTO-ID OPTIONS	
1D laser scanner	<ul style="list-style-type: none"> All major 1D bar codes Bidirectional Normal, hold to aim and hold down modes 2 character pre and post fixes Configurable scan alert sounds
2D imager	<ul style="list-style-type: none"> All major 1D and 2D codes High visibility LED aimer 2 character pre and post fixes Configurable scan alert sounds
RFID OPTIONS	
UHF RFID Cross Dipole	<ul style="list-style-type: none"> ISO 18000-6C (EPC Class 1 Gen 2) Supports all common tag functionalities including: read, write, kill, lock, inventory, meta inventory, NXP proprietary commands Supports all typical settings e.g. sessions, Q-values Reading distance up to 3 m, typical ERP +28 dBm Software controlled polarization; horizontal, vertical or cross-polarized
UHF RFID	<ul style="list-style-type: none"> ISO 18000-6C (EPC Class 1 Gen 2) Supports all common tag functionalities including: read, write, kill, lock, inventory, meta inventory, NXP proprietary commands Supports all typical settings e.g. sessions, Q-values Reading distance up to 1,5 m, typical ERP +25 dBm Horizontal linear polarized
HF RFID	<ul style="list-style-type: none"> ISO 15693 13.56MHz Reading speed up to 40 tags per second Typical reading distance 3-10 cm
All information is subject to change without prior notice.	

CONTROL PANEL APPLETS

- NID Autostart: automatic start of application after network connection is established
- NID Backlight: backlight brightness
- NID Indicators: battery level and signal level indicators
- NID Keybacklight: brightness level
- NID Keypad: keyboard mapping
- NID LinkWatchdog: connection monitoring
- NID Menu: application manager
- NID Powerbutton: power button mapping
- NID Scanner: barcode type settings
- NID SNTP Service: network time synchronisation
- NID Touch screen: disable/enable
- NID Trigger button: Trigger button mapping

THIRD PARTY APPLICATIONS

- Netop remote management

OPTIONAL SOFTWARE APPLICATIONS

- Nordic ID Thin Client: RF-series emulation
- Naurtech CTerm: terminal emulation client
- Naurtech SAP browser

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

For Java

- Java Virtual Machine
- MHL API wrapper for Java

For HTML

- Nordic ID Sample applications



EU DIRECTIVE
2002/96/EC ON WASTE
ELECTRICAL AND
ELECTRONIC
EQUIPMENT (WEEE)

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