NORDICID

nordicidmerlin

Nordic ID Merlin is a robust, high performance best-in-class handheld RFID reader for professional use with future-proof, backwards-compatible design. Ideal for a variety of production uses and commercial applications. Nordic ID Merlin is first and foremost a working tool. It's designed for ruggedness and reliability, and built to operate all day long on a single charge. Great ergonomic design ensures that it fits comfortably in the hand, while superior functionality makes it a valuable tool— simply because it makes work so much easier.

Nordic ID Merlin -series include: Nordic ID Merlin UHF RFID Cross Dipole, Nordic ID Merlin UHF RFID, Nordic ID Merlin HF RFID Blade, Nordic ID Merlin HF RFID and Nordic ID Merlin Barcode. 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 MERLIN UHF RFID CROSS DIPOLE	NORDIC ID MERLIN UHF RFID	NORDIC ID MERLIN HF RFID BLADE	NORDIC ID MERLIN HF RFID	NORDIC ID MERLIN
RFID	RFID	RFID	RFID	

| HF UHF RFID | LASER or 2D IMAGER | 3G UMTS / HSDPA 900/2100 MHz | GSM/GPRS EDGE 900/1800 | WLAN 802.11 b/g WPA2 | BLUETOOTH 2.0 + EDR Class 2 | WINDOWS CE 6.0 | USB & ETHERNET via Charger |

RFID IDENTIFICATION

NORDIC ID MERLIN UHF RFID Cross Dipole	Supported standard: ISO 18000-6C (EPC Class 1 Gen 2) - supports all common tag functionalities and custom commands Supports all typical settings e.g. sessions, Q-values RF Power: ERP +30 dBm (1W) Nominal reading distance: 5 m Typical reading speed: 150 tags per second Software controlled antenna polarization Horizontal, vertical or cross-polarized
NORDIC ID MERLIN UHF RFID	Supported standard: ISO 18000-6C (EPC Class 1 Gen 2) - supports all common tag functionalities and custom commands Supports all typical settings e.g. sessions, Q-values RF Power: ERP +27 dBm (0.5W) Nominal reading distance: 2.5 m Typical reading speed: 150 tags per second Horizontal linear polarized
NORDIC ID MERLIN HF RFID BLADE	Supported standard: ISO15693, common functionalities RF Power: 13.56MHz, 1W Nominal reading distance: 0-40 cm Reading speed: up to 40 tags per second
NORDIC ID MERLIN HF RFID	Supported standard: ISO15693, common functionalities RF Power: 13.56MHz, 1W Nominal reading distance: 0-30 cm Reading speed: up to 40 tags per second

LASER IDENTIFICATION

1D laser scanner	All major 1D bar codes Bidirectional Normal, hold to aim and hold down modes 2 character pre and post fixes, padding, replacement Configurable scan alert sounds
2D imager	All major 1D and 2D codes High visibility LED aimer 2 character pre and post fixes, padding, replacement Video preview Configurable scan alert sounds

PRODUCT HIGHLIGHTS

- Multiple identification and communication options
- High performance UHF RFID
- Robust and outdoor usable
- Erogonomic and light weight
- Individual button light control
- Clear and bright screen
- Clear keypad layout
- Customer specific SW configurations
- Latest and most secure operating system
- Long operating hours
- 2 years warranty and 5+ years product support

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
- 4 slot desktop charger including power supply
- 4 slot battery charger including power supply (EU, UK, US)
- Holsters and protective covers
- Pistol grip (includes battery
- Available in custom colours

PREINSTALLED APPLICATIONS

- MICROSOFT APPLICATIONS:
- Internet Explorer web browser
- Wordpad
- Microsoft® Silverlight™
- IE with Adobe® Flash® Lite

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	3,5" QVGA touch screen, 240 x 320 pixels, 262k colours Adjustable LED backlight, Daylight readable
Keypad	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	Buzzer for audible signals (RTTTL support) Battery charging indicator LED Programmable LED

COMMUNICATION

Wireless WAN	UMTS / HSDPA (900/2100 MHz) GPRS / EDGE (900/1800 MHz) (optional)
Wireless LAN	Summit Wi-Fi WLAN 802.11/b/g, 802.11e (optional)
WLAN security	Standards: WEP, WPA, WPA2 (802.11i) Encryption: WEP, TKIP, AES
Wireless PAN	Bluetooth 2.0 + EDR, Class 2
LAN	Ethernet 10/100 via charger (optional)
PAN	USB 2.0 full speed client via charger

POWER

Battery	Rechargeable, removable Lithium-Ion battery pack 2600 mAh @ 7.4V 4800 mAh @ 7.4V with pistol grip Up to 30 h in intensive use (standard battery)
Charging	Desktop charging cradle with USB connection Desktop charging cradle with spare battery charging slot Typical charging time: 2,5 h (0 to 90 %) and 5 h (0 to 100 %)
External power supply	AC adapter for desktop charger: input 100-240 VAC, 1A, 50-60 Hz / output 24 VDC, 1.3A, 31.2 W / Power cable for EU, UK or US
Backup battery / batteries	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	Nordic ID Merlin UHF RFID Cross Dipole Nordic ID Merlin UHF RFID Nordic ID Merlin HF RFID Blade Nordic ID Merlin HF RFID Nordic ID Merlin	(H) 250 x (W) 105 x (D) 175 mm (H) 250 x (W) 90 x (D) 47 mm (H) 340 x (W) 105 x (D) 265 mm (H) 250 x (W) 90 x (D) 47 mm (H) 230 x (W) 90 x (D) 47 mm
Weight	Nordic ID Merlin UHF RFID Cross Dipole Nordic ID Merlin UHF RFID Nordic ID Merlin HF RFID Blade Nordic ID Merlin HF RFID Nordic ID Merlin	~ 750 g ~ 550 g ~ 750 g ~ 550 g ~ 450 g

DROP AND SHOCK

Drop and impact resistance (drops onto concrete)		1.6 m (all except HF RFID Blade: 1.2 m)
Tumble	Contacts Air discharge	0,5 m ~500 tumbles (all except HF RFID Blade: n/a) 1 m ~250 tumbles (all except HF RFID Blade: n/a)
ESD	Contacts Air discharge	+/- 4kVdc +/- 8kVdc

ENVIRONMENT

Environmental sealing		IP54 - dust and water splash protected (all except HF RFID Blade: n/a)
Temperature	Operating Storage Charging	-20° to +55° C -20° to +60° C 0° to +45° C
Relative humidity		10% to 95% non-condensing

NORDIC ID APPLICATIONS:
- Display rotate
- Registry backup
- IP config
- Version tool
- NID Menu

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

OPTIONAL APPLICATIONS
- Nordic ID Thin Client: RF-series emulation
- Naurtech CETerm: terminal emulation client
- 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
- NUR API
- MHL API
- Header file

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

All information is subject to change without prior notice.

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