nordic id

NORDIC ID MERLIN

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Nordic ID Merlin provides an efficient solution for times when a robust and multi-functional mobile barcode UHF RFID reader is required. The physical keyboard on the mobile computer eases use when working with gloves. Suitable application areas are, for example, manufacturing industries, retail business operations and logistics.

PRODUCT VARIANTS

NORDIC ID MERLIN UHF RFID CROSS DIPOLE	NORDIC ID MERLIN UHF RFID CROSS DIPOLE ONE-SERIES	NORDIC ID MERLIN UHF RFID	NORDIC ID MERLIN

UHF RFID · Laser Barcode · 2D Imager Barcode · WLAN · 3G · Blue-tooth · GPS · Windows CE6

UHF RFID IDENTIFICATION

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
Typical reading speed	200 tags per second (peak up to 400 tags per second)
NORDIC ID MERLIN UHF RFID Cross Dipole - One-series	RF Power: ERP +33 dBm (2W) (Only ETSI 865.6–867.6 MHz) Nominal reading distance: 7 m Software controlled antenna polarization, Horizontal, vertical or cross-polarized
NORDIC ID MERLIN UHF RFID Cross Dipole	RF Power: ERP +30 dBm (1W) Nominal reading distance: 5 m / 16.4 ft Software controlled antenna polarization, Horizontal, vertical or cross-polarized
NORDIC ID MERLIN UHF RFID	RF Power: ERP +27 dBm (0.5W) Nominal reading distance: 2.5 m / 8.2 ft Horizontal linear polarized

BARCODE IDENTIFICATION

1D laser scanner	All major 1D bar codes 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) 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

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
- Powerful mobile computer
- Fast and accurate reading
- Full day use with a single charge
- Sharp colour display

PREINSTALLED APPLICATIONS

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

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 Backlight: keyboard & display 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
- NID WWAN settings

OPTIONAL APPLICATIONS
- Naurtech CETerm: terminal emulation client
- Naurtech SAP browser
- Netop remote management

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

CONNECTIVITY

Wireless WAN	3G UMTS / HSDPA (900/2100 MHz) GPRS / EDGE (900/1800 MHz) (optional)
GPS	Assisted GPS (optional)
Wireless LAN	IEEE 802.11 a/b/g/n
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 via charger

POWER

Battery	Rechargeable, removable Lithium-Ion battery pack 2600 mAh @ 7.26V 5200 mAh @ 7.26V 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, 1.25A, 30 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 (H x W x D)	Nordic ID Merlin UHF RFID Cross Dipole	250 x 105 x 175 mm / 9.8 x 4.1 x 6.9 inch
	Nordic ID Merlin UHF RFID	250 x 90 x 47 mm / 9.8 x 3.5 x 1.9 inch
	Nordic ID Merlin	230 x 90 x 47 mm / 9.1 x 3.5 x 1.9 inch
Weight	Nordic ID Merlin UHF RFID Cross Dipole	~ 750 g / 26.5 oz
	Nordic ID Merlin UHF RFID	~ 550 g / 19.4 oz
	Nordic ID Merlin	~ 450 g / 15.9 oz

DROP AND SHOCK

Drop and impact resistance (drops onto concrete)	1.6 m / 5.3 ft		
Tumble	0,5 m / 1.7 ft ~500 tumbles 1 m / 3.3 ft ~250 tumbles		
ESD	Contacts Air discharge	+/- 4kVdc +/- 8kVdc	

ENVIRONMENT

Environmental sealing	IP54 - dust and water splash protected		
Temperature	Operating Storage Charging	-20 to +55 °C -20 to +60 °C 0 to +45 °C	-4 to 130 °F -4 to +140 °F +32 to +113 °F
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
- 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
- NUR API .NET
- OPENCF .NET - 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