



nordicidmerlin

Nordic ID Merlin is a robust, high performance handheld with future-proof, backwards-compatible design. Ideal for a variety of production uses and commercial applications, Nordic ID Merlin -series include: Nordic ID Merlin Barcode, Nordic ID Merlin UHF RFID, Nordic ID Merlin UHF RFID Cross Dipole, Nordic ID Merlin HF RFID Blade 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
- Ergonomic and light weight
- Individual button light control
- Clear and bright screen
- Customer specific SW configurations
- Latest and most secure operating system
- Long operating hours
- 2 years warranty and 5+ years product support

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
- 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

SERVICES

- 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

PREINSTALLED SOFTWARE 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

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 • 4800 mAh @ 7.4V with pistol grip • Up to 30 h in intensive use (standard battery)
Charging	<ul style="list-style-type: none"> • 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 %)
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 • Clear layout
Signals and indicators	<ul style="list-style-type: none"> • Buzzer for audible signals (RTTTL support) • Battery charging indicator LED • Programmable LED

COMMUNICATION		
Wireless WAN	GPRS EDGE 900/1800 MHz	(optional)
Wireless LAN	Summit Wi-Fi WLAN 802.11/b/g, 802.11e	(optional)
WLAN security	<ul style="list-style-type: none"> Standards: WEP, WPA, WPA2 (802.11i) 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 via charger	

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, padding, replacement 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, padding, replacement Video preview 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 and custom commands Supports all typical settings e.g. sessions, Q-values Nominal reading distance 5 m Adjustable output power up to +30 dBm (1W) ERP in 1 dB steps Software controlled antenna 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 and custom commands Supports all typical settings e.g. sessions, Q-values Nominal reading distance 2.5 m Adjustable output power up to +27 dBm (0.5W) ERP in 1 dB steps Horizontal linear polarized 	
HF RFID Blade	<ul style="list-style-type: none"> ISO 15693, common functionalities 13.56MHz, 1W Reading speed up to 40 tags per second Nominal reading distance 0-40 cm 	
HF RFID	<ul style="list-style-type: none"> ISO 15693, common functionalities 13.56MHz, 1W Reading speed up to 40 tags per second Nominal reading distance 0-30 cm 	

SIZE AND WEIGHT		Cross Dipole	UHF/HF RFID	HF Blade	Barcode
Dimensions (H, W, D)		250 x 105 x 175 mm	250 x 90 x 47 mm	340 x 105 x 265 mm	230 x 90 x 47 mm
Weight		~ 750 g	~ 550 g	~ 750 g	~ 450 g
DROP AND SHOCK		Cross Dipole	UHF/HF RFID	HF Blade	Barcode
Drop and impact resistance (drops onto concrete on all axis)		multiple 1.6 m	multiple 1.6 m	multiple 1.2 m	multiple 1.6 m
Tumble		0,5 m~500 tumbles 1 m~250 tumbles	0,5 m~500 tumbles 1 m~250 tumbles	NA	0,5 m~500 tumbles 1 m~250 tumbles
ESD	Contacts	+/- 4kVdc	+/- 4kVdc	+/- 4kVdc	+/- 4kVdc
	Air discharge	+/- 8kVdc	+/- 8kVdc	+/- 8kVdc	+/- 8kVdc
ENVIRONMENT		Cross Dipole	UHF/HF RFID	HF Blade	Barcode
Environmental sealing		IP54 - dust and water splash protected	IP54 - dust and water splash protected	NA	IP54 - dust and water splash protected
Temperature	Operating	-20° to 55° C	-20° to 55° C	-20° to 55° C	-20° to 55° C
	Storage	-20° to 60° C	-20° to 60° C	-20° to 60° C	-20° to 60° C
Charging		0° to 45° C	0° to 45° C	0° to 45° C	0° to 45° C
Relative humidity		10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing	10% to 90% non-condensing

All information is subject to change without prior notice.

CONTROL PANEL APPLET

- 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 CETerm: 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
- Header file

For HTML

- Nordic ID Sample applications



NORDICID
www.nordicid.com



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2002/96/EC ON WASTE
ELECTRICAL AND
ELECTRONIC
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