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

**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**
- Nordic ID Thin Client: RF-series emulation
- Nautech CETerm: terminal emulation client
**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

**CONNECTIVITY**

- **Wireless WAN**: 3G UMTS / HSDPA (900/2100 MHz)
  - GPRS / EDGE (900/1800 MHz) (optional)
- **GPS**: Assisted GPS (optional)
- **Wireless LAN**: 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)

**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**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weight</th>
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<tbody>
<tr>
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<td>~ 750 g</td>
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**DROP AND SHOCK**

- **Drop and impact resistance (drops onto concrete)**: 1.6 m (all except HF RFID Blade: 1.2 m)
- **Tumble**: 0.5 m ~ 500 tumbles (all except HF RFID Blade: n/a)
  - 1 m ~ 250 tumbles (all except HF RFID Blade: n/a)
- **ESD**: +/– 4kVdc
  - +/– 8kVdc

**ENVIRONMENT**

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

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**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**

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