PiccoLink ®

PiccoLink® **2000** –
The Future is in Your Hands

NORDIC ID

A **powerful** tool for a wide range of applications

PiccoLink® 2000 is a hand-held PC 2000 that can be used for various tasks.

The advanced PiccoLink® 2000 combines the attributes of a batch hand-held terminal with those of a radio terminal giving the user the best of both worlds. The lightweight terminal has a user accessible full size PCMCIA type II slot for supporting wide range of compatible PC-cards.

The versatility of PiccoLink® 2000 is based on two factors: a powerful processor and a fast wireless connection to the company's data system. The terminal collects the required information, modifies it in a desired manner and sends it safely over to the specified application – or the other way around. It locates the information in the data system and sends it to the user precisely where it is needed. And all this in real time.

The solutions available with the PiccoLink® 2000 are unlimited. Here are some samples:

Browser solutions
A built in Microsoft Internet Explorer 4.01 supports all the necessary functions and extensions to build extensive solutions which can be connected through a WLAN or GSM/GPRS connection. The full screen function in PiccoLink® 2000 for browser applications guarantee the maximum use of the screen size in a user application.

Native software solutions
The PiccoLink® 2000 can work as a batch collection terminal. For batch applications with a long time between the synchronisation the PiccoLink® 2000 flash folder can be used and the device has more than sufficient memory to store several hundred thousands of transactions.

Networked native solutions
Rapid application development tools typically run their own native "viewer" on the terminal, giving them many of the strengths of a native application. Writing networked software for the PiccoLink® 2000 is very simple, any slightly experienced windows programmer is able to do it.

Terminal solutions
PiccoLink® 2000 supports terminal solution connectivity. For terminal emulation you can emulate text based terminals or run different Windows desktops from the PiccoLink® 2000 screen. For this Nordic ID has a terminal client 3rd party software available. PiccoLink® 2000 supports also the use of a Terminal Client for Windows.

* Windows is a Trademark of Microsoft

PiccoLink® 2000 features a 320 x 240 pixel 1/4 VGA display, which also supports the use of a provided touch pen. Thanks to the backlight the display is readable even under poor circumstances. Excellent clarity is secured by familiar user interface since PiccoLink® 2000 operates on the Windows* platform.

For one so small, PiccoLink® 2000 is a real powerhouse. It uses the Intel StrongARM 32 bit processor and has 16 to 32 MB of RAM and 16 to 32 MB of flash memory.

PiccoLink® 2000 can be used stand alone but it also connects to the company's wireless data network. PiccoLink® 2000 features a user-accessible full-size PC card type II slot accommodating, for instance, a GSM, WLAN or a GPRS card. For future the PiccoLink 2000 supports any technology that is provided in PC card format, eg. Bluetooth and GPS.

If the customer wishes to know whether the footwear shop carries a particular shoe in brown and a half size larger, PiccoLink® 2000 informs the seller immediately. Furthermore, it also tells you that the pair of brown pumps size 8.5 can be found on aisle D, shelf 16, and that three more pairs are available.

In a clothes shop PiccoLink® displays the item's price, accesses preferred customer cards, checks out any discounts and verifies whether the desired colour or size is in stock. In a restaurant it transfers the order data directly to the kitchen and informs you if the customer's favourite wine is still available in the cellar. When the customers order the wine, PiccoLink® 2000 makes the corresponding entry in the stock bookkeeping and adds it into the account.

PiccoLink® 2000 is stylishly designed. It is a pleasure to have in the hand both in customer service and on the shop premises.

Easy to use in all conditions

The built-in barcode scanner can be activated simply by pressing a button. The scanned data can either be stored in the local memory or transferred immediately to the company data system.

PiccoLink® 2000 fits into every hand since it is extremely simple to use. The learning curve is very low and the familiar operating system with its clear symbols makes the device easy to use.

Entering data into PiccoLink® 2000 is simple. You can choose between the touch screen, 27 large-size keys, laser scanner and RFID reader. Thanks to the robust navigation buttons accessing the program menus is effortless.

In designing of PiccoLink® 2000 particular attention has been paid to ergonomics. The device fits snugly in the palm and it can be operated using one hand. When required, you can have PiccoLink® 2000 with you all day as it weighs only 340 grams.

The user-friendliness is further improved by the powerful 2.3 Ah battery. Once charged, it will keep the device going a whole working day. The integrated tilt switch offers user configurable automatic wakeup when the terminal is moved. Another useful feature is the built-in vibration alert.

Even if PiccoLink® 2000 is easy for the end-user, it provides a truly wide range of possibilities for programming. The 32-bit processor and up to 32MB memory turn PiccoLink® 2000 to an actual computer, which will manage even the most demanding tasks.

One hand for the PiccoLink® 2000, the other one free. All the buttons on the device are easily operated by thumb. Thanks to the vibration alert using PiccoLink® 2000 is easy even in noisy environments.

PiccoLink® 2000 is a robust and reliable tool designed for heavy-duty use. It has been drop-tested from 1.2 meters and has an operating temperature of –0 and +50°C.

PiccoLink® 2000 is a standalone device, which can also be operated outside the range of a wireless network via the GSM or GPRS connection. For instance, locally stored data can be transferred to specified applications whenever required.

In the messenger service PiccoLink® 2000 is a powerful tool. It deciphers the consignment's barcode into plain text clearly indicating the recipient, address and the time of delivery. Once the consignment has been delivered, PiccoLink® 2000 will send out a confirmation in form of a SMS data package to the company's data system. With a portable printer available, PiccoLink® 2000 prints out the documents required for the acknowledgement. This takes place wirelessly using an IrDA connection or a radio link.

Data on accomplished deliveries are transferred over to the ordering centre by SMS or e-mail. The ordering centre can in turn inform the couriers on changes in the deliveries with equal ease.

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PiccoLink® 2000 Hand-Held
Devices and Accessories

The PiccoLink® 2000 handset is available in a range of models suited for the user's varied needs. The chosen configuration can be further complemented by accessories presented below. The PiccoLink® 2000 range features the following products:

PiccoLink® 2000 hand held terminal with Laser Scanner
PiccoLink® 2000 hand held terminal without Laser Scanner
PiccoLink® 2000 hand held terminal with Laser Scanner and RF-interface to portable printers
PiccoLink® 2000 hand held device with RFID 13.56 MHz reader/writer

By employing appropriate accessories you can expand the possibilities of the PiccoLink® 2000 hand held terminal even further. Battery and antenna hat for the WLAN PC Card are delivered with the hand held terminal.

Car Kit
Vehicle kit with a clamp allows the handset to be used even when mounted on the kit.

- Dual function as a holder cradle and recharger
- Simply plug into a cigarette lighter or use the forklift power adapter
- RS232 port for printers and other external devices

Desk Top Charger Kit
There are two slots in the Desktop Charger, a larger one for the PiccoLink® 2000 handset unit and a smaller one for a spare battery. Both slots may be used simultaneously.

- Charging time approximately three hours
- USB and RS232 connectors

Spare battery pack
If you intend to use PiccoLink® 2000 handsets continuously, without charging, it is recommended that you purchase spare batteries.

Multiple Desktop Charger
Keep your chargers nicely in one place. No more question of the place of the charger. One slot of the charger can be used as a docking station between the handheld units and the host computer.

Nylon Pouch with Swivel clip
- May be attached to a belt
- Extra protection against harsh environment

PiccoLink 2000® **Technical** Specifications

CPU	Intel® StrongARM 32-bit processor
Operating platform	Microsoft® Windows® CE 3.0 Handheld PC 2000
Memory	16/32MB SDRAM and 16/32MB FLASH
Display	1/4 VGA (320 x 240 pixels) touch-sensitive 16 gray scale display
Display backlight	Electroluminescence
Keyboard	27 keys
Barcode reader	Laser, IEC Class 2 devices
Communications ports	IrDA-port, 115 KBps SIR
	RS232 port in base connector and in Desk Top Charger
	USB in Desk Top Charger
Battery pack	Rechargeable 2.3 Ah Lithium-ion battery pack
Expansion options	Type II PC Card slot
Drop specification	1.2m/4 ft. to concrete
Dimensions	188 x 98 x 41 mm (L x W x D)
Weight	340 g
Operating temperature	0 to 50°C
Storage temperature	−20° to 60°C
Application Development	Nordic ID PiccoLink® 2000 Software Development Kit (SDK)
	Microsoft® Embedded Visual Tools 3.0 including Embedded Visual C++ 3.0 and Visual Basic 3.0
	Subsets of MFC and ATL libraries are available
Charger	230 VAC 50 Hz/110 VAC 60 Hz
Charging time	Approximately 5 hours from 0 % to 100 % charged
	Approximately 2 hours from 0 % to 90 % charged
Other I/O	Microphone and speaker
	Headset connector (2.5 mm jack)
	Vibrating alarm