



Formula 8500 - 8500/RF

Laser Handheld PC

Features

- Extremely compact and rugged
- Weighs in at just 370 grams (13 oz.)
- Powerful: true 32 bit 486 based
- Open System Architecture: DOS, PCMCIA slot, IrDA
- Formula One 2.4 GHZ Wireless Technology
- Client/Server or IBM 5250, 3270, VT-100 terminal emulation

General Description

The Formula 8500 is a Handheld PC with integrated laser scanner based on PC technology designed by Datalogic. Extremely light and compact, the F8500 is the only Handheld PC on the market to use a 486 platform and, with its integrated laser scanner, weighs in at just over 350 grams (12 ounces).

The DOS Operating System and the PCMCIA slot ensure to the Formula Handheld PC, with its extremely light and compact design, a true open system architecture that will offer unequalled expandability and easy integration capability, not to mention greater ease of programming for developers already familiar with the PC programming environment.

The Formula 8500 is capable of reading all common bar code symbologies, including the new PDF-417 two-dimensional codes as option. The user interface is particularly refined: the new Formula Handheld PC incorporates an ample backlit LCD graphic display with 160 by 240 pixels resolution, and an ergonomic alphanumeric keyboard.

The user-accessible Type-II PCMCIA slot allows for simple installation of modems, Ethernet and Token Ring adapters, and solid state disk drives using the standard PC Card technology.

Additionally, the powerful Formula 8500 Handheld PC is equipped with an IrDA port for short-range wireless infrared communication with portable printers and other devices that support this kind of interface.



Formula 8500 & Formula 8500/RF

For pen-based applications an optional touch-screen is available which allows even for functions that require signature capture.



Formula 8500

Formula 8500 Batch

Local and Modem communications

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Serial: • integrated IrDA communication port
• RS-232 or RS-485, via F985 IrDA

Transceiver/Charger

• Data rate: up to 115 Kbps

Modem: through certified PCMCIA modem adapters

LAN: through certified PCMCIA Ethernet or Token Ring adapters

Formula 8500/RF

Formula One

Spread Spectrum Wireless Communications

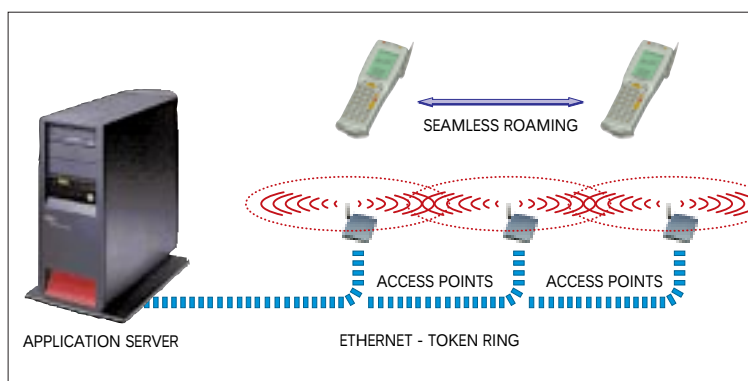
Formula One is the fast wireless communication system designed by Datalogic.

Specially conceived for the new generation of hi-end Formula terminals, Formula One uses 2.4 GHz Spread Spectrum technology which requires no user's license but guarantees Wireless LAN (WLAN) connections at very fast speeds.

With a data rate of 1.6 Mbps, Formula One offers the highest communication speed available today, yet at the same time guaranteeing incomparable resistance to interference and strong data security, thanks to the Frequency Hopping technique.



Formula 8500/RF



Typical Formula One Wireless Network

Formula 8500 & 8500/RF Laser Handheld PC - Specifications

Operating System	• ROM DOS 6.22, • Phoenix Technologies BIOS
Processor	• True 32 bit 486, 16MHz
System memory	• 512KB ROM dedicated to DOS and BIOS • 2MB RAM, 2MB Flash • 2MB RAM, 4MB Flash • 4MB RAM, 8MB Flash • RAM: for system operation and virtual-disk data storage • Flash: non-volatile memory for virtual-disk storage of applications and data files
Display	• high-contrast graphic LCD • resolution 160x240 pixels, 16 levels of gray • EL backlight feature • keyboard controlled contrast • touch screen with signature capture capability (opt.) • 254 point per inch integrated digitizer with ergonomic plastic stylus (option)
Screen formats	• 20 characters by 25 lines or 10 by 12 in CGA mode • 16 characters by 20 lines in Datalogic proprietary mode
Keyboard	• 41 keys, alphanumeric silicone rubber keyboard
Signal to operator	• bicolor LED • piezoelectric buzzer software programmable in frequency and duration
Clock Calendar	• quartz controlled Real Time Clock , programmable date and time
PC Card Expansion	• one Type-II PCMCIA slot, user-accessible • support for certified solid-state-disks, fax/modem, Ethernet, Token Ring, serial and WLAN PC Cards
Integrated laser scanner	• One-dimensional symbologies - light source: VLD - visible laser diode - scanning rate: 36 scans/sec - minimum resolution: 0.15 mm - depth of field: 3 to 70 cm, depending on bar code thickness - reading angles: $\pm 65^\circ$ skew, $\pm 55^\circ$ pitch - decoded symbologies: EAN/8, EAN/13, UPC/A-E, MSI, 3/9 Standard-Extended, 2/5 Interleaved, Codabar, 128, 93, UCC/EAN 128 • Two-dimensional symbologies (option) - light source: VLD - visible laser diode - scanning rate: 570 scans/sec - minimum resolution: 0.17 mm - depth of field: 13 to 70 cm, depending on bar code thickness - reading angles: $\pm 15^\circ$ skew - $\pm 30^\circ$ pitch - decoded symbologies: EAN/8, EAN/13, UPC/A-E, 128, 3/9 Standard, Extended, 2/5 Interleaved, Codabar, UCC/EAN 128, PDF-417
Serial communication	• IrDA communication port; • RS-232 or RS-485 via Transceiver/Charger • Data rate: up to 115 Kbps
Wireless communication (F8500/RF)	• Formula One 2.4 GHz Spread Spectrum Wireless Communications • Radio technology: 2.4 GHz frequency band, Frequency Hopping Spread Spectrum (FHSS) • Power output: 100mW • Antenna: integrated, external rubber duck dipole antenna • Range*: up to 150 meters radius indoors, more than 300 meters radius outdoors • Data rate: 1.6 Mbps • Certications: Europe - ETSI 300-228; US - FCC Part 15; International - contact Datalogic for a list of currently certified countries. • Supported architectures: Client/Server or IBM 5250, 3270, VT-100 terminal emulation • The PCMCIA slot is not available when using the wireless communication option
Power source	• Quick change battery packs supporting: a) 1200 mAh NiMH rechargeable batteries b) 3 standard AA-size alkaline batteries • Lithium back-up to preserve setup data
Autonomy	• 13 hours, with reading every 45" (NiMH batteries, 1-D laser scanner, no radio) • 20 hours, with reading every 45" (3 AA alkaline batteries, 1-D laser scanner, no radio)
Battery charging	• via F985 IrDA Transceiver/Charger featuring both 1. direct F8500 recharging 2. additional fast recharge slot for battery pack recharging
Environment	- Industrial water jetting and dust protection - drop resistance: 1.2 m (4 feet) onto concrete - electrostatic discharge protection: up to 15KV operating temperature: 0 to 50° C
Dimensions and Weight	212 x 74 x 50/34.5 mm, 370 grams (13 oz.) wih NiMH batteries, 1-D and without radio - 400 grams (14 oz.) with NiMH batteries, 1-D and radio

DATA LOGIC **DL**

Bar Code & More



We reserve the right to make modifications and improvements

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Datalogic Quality Partner



These products are available through the European network of Datalogic Quality partners

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