



Formula 7400/7400RF

Palm Laser PC

FEATURES

- Based on a 486 processor
- Powerful, compact and lightweight
- Open system architecture
- Integrated full RS232 and IrDA ports
- IP53 protection
- Available with a 37 or 24 key keypad
- Formula One wireless technology at 2.4 GHz
- IBM5250, 3270 and VT100/220 terminal emulation

APPLICATIONS

- Inventory control
- Goods picking
- Goods shipping/receiving
- General warehouse management
- Shelf price verification
- Shelf replenishment

GENERAL DESCRIPTION

The **Formula 7400** is a powerful mid-range portable terminal, based on PC technology with optional WIRELESS communication available, thanks to the integrated μ ISA card which supports the 2.4 GHz SSFH Radio. TN Client software for IBM5250, 3270 and VT100/220 is also available.

As is the tradition with Formula products, this technologically and stylistically refined Palm Laser PC has been conceived to offer users a compact and lightweight product, one that combines convenience with top-notch performance characteristics.

Thanks to the DOS Operating System and the powerful 486 32-bit processor its hardware architecture is based on, the **Formula 7400** can be easily integrated into the most popular information systems.

Also, by using the Development System 7400 based on standard C compilers integrated with special Datalogic libraries, it can be easily programmed by developers who are already familiar with the PC environment.

Two keyboard layouts are available for the **Formula 7400**: one has 37 keys with full alphanumeric support and the other has 24 keys which addresses applications requiring mainly numeric data entry.

The bar code scanner is completely integrated and is powered by the Datalogic decoding library, acquiring, in this manner, all the skills developed for Hand-Held Readers.

The **Formula 7400** also meets equally important requirements such as high autonomy, resistance to falls and knocks and protection when working in harsh environmental conditions.

Conceived to best meet the operative needs of today's data collection world, the **Formula 7400** is reliable, flexible and highly productive. It is also provided with 2.4 GHz FHSS Radio technology for mobility in our mid-range solution.



USER INTERFACE



All the components of the user interface have been particularly well designed, beginning with the wide high contrast LCD display (96 x 64 pixels) capable of visualising any operation in all ambient light conditions.

Designers can use the display format that best suits their particular application needs, and have various operations available ranging from a minimum of 13 characters by 6 lines to a maximum of 24 characters by 8 lines. Datalogic also offers the Formula 7400 with 2 keypad possibilities to satisfy all application needs. The Formula 7400 37K is equipped with a 37 key keypad which is optimised in terms of space, colour scheme and ease of operation to accommodate the integration of a new graphic overlay. This allows easy alphanumeric data-entry and access to various complex functions in a practical and efficient manner.

Rather, the Formula 7400 24K was designed for base applications which are mainly composed of numerical data-entry operations. In fact, 10 of the 24 keys on the keypad, immediately visible thanks to their particular color, are dedicated mainly to numerical symbologies. The various functions are distributed among the remaining 15 keys and the graphic overlay, which also hosts alphabetic symbologies. This graphic integration allows keypad functions to be personalised when using particular symbologies, avoiding the need for more expensive and complicated modifications to the keypad layout.

CRADLES AND COMMUNICATION

RS232 serial mode data transmission is provided by placing the terminal into the Formula 970 Transceiver/Charger or by connecting the PC, modem, printer or any other equipment directly to the complete RS232 port, already integrated into the Formula 7400. Lastly, the Formula 7400 has an IrDA port that, with the dedicated software driver (optional), can be conveniently used for short-distance infrared communications.

For applications requiring connection with several Formula 970 Transceiver/Chargers, the F970 offers HW readiness to be connected over a RS485 bus. Other available cradles are the F970/C, single-slot battery charger and F970/V, vehicle mount cradle.



F7400 37K and F970 Transceiver/Charger



Integrated Full RS232 and IrDA ports

FORMULA 975 MULTICHARGER



Formula 975/4 and Formula 975/8

The Formula 975 Multicharger is the ideal answer for battery recharging requirements in applications where intense use of the terminal and therefore extremely reduced rest time is necessary.

The Formula 975 permits 4 or 8 battery packs to be placed in the cradle and recharge simultaneously, allowing more operators to continue working by simply changing the run down device.

In this manner, all the pauses necessary for recharging when the terminal is placed in the classic Transceiver/Charger are avoided.

The Multicharger also optimises battery lifetime thanks to its recycling option, which eliminates the possibility of "memory effect."

The F975 is suitable for F7400 and F8500 portable terminals.

SPREAD SPECTRUM WIRELESS COMMUNICATION

The Formula One wireless communication system in 2.4 GHz radio frequency has been developed by Datalogic specifically for high-performance Formula terminals.

Formula One, which is compatible with the OpenAir 2.4 international standard, offers high speed data transmission as well as excellent immunity against interference, thanks to Spread Spectrum Frequency Hopping (SSFH) technology.

The system is based on the ACCESS POINT that provides the bridging between the wired and the wireless devices.

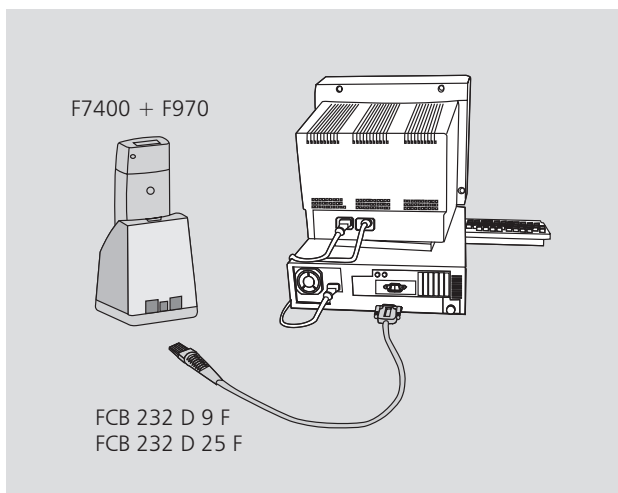
The Access Point can be configured and managed through the wired or wireless network, by serial connection or modem, with the use of Telnet Access software, web browser or SNMP (Simple Network Management Protocol).

As a further extension of the Access Point offer, the AP-7510 and AP-7920 can be used to address those applications where no SNMP (AP-7510) or roaming (AP-7920) is required, providing great advantages in terms of the price/performance ratio.

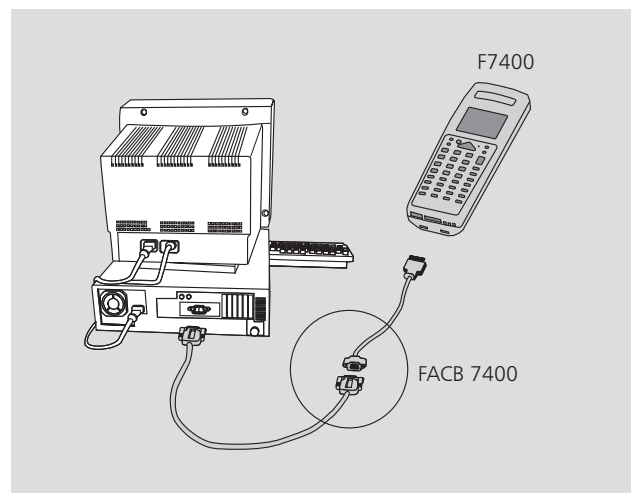
Performance of the Formula One system can be increased with the assistance of TN Client, a complete software package for terminal emulation based on a standard Telnet-TCP/IP protocol.

TN Client brings together the VT-100, VT-220, HP700/92, IBM 5250 and 3270 emulations, allowing for real time interaction between the Mobile unit and Unix, HP, IBM AS/400 and IBM Mainframe systems.

CONNECTIONS



Typical RS232 serial connection



Direct serial connection via integrated RS232 port

MODELS AND ACCESSORIES

PRODUCT	DESCRIPTION	ORDER NO.
F7400 2+2 R 37K	F7400 2MB+2MB Palm Laser PC, 37 keys, NiMH rechargeable batt. pack.	942104030
F7400 8+4 R 37K	F7400 8Mb+4MB Palm Laser PC, 37 keys, NiMH rechargeable batt. pack	942104070
F7400 2+2 R 24K	F7400 2MB+2MB Palm Laser PC, 24 keys, NiMH rechargeable batt. pack.	942104110
F7400 8+4 R 24K	F7400 8Mb+4MB Palm Laser PC, 24 keys, NiMH rechargeable batt. pack	942104150
F7400 2+2 RF 37K	F7400 RF 2.4 GHz 2MB+2MB Palm Laser PC with 37 keys	*
F7400 2+2 RF 24K	F7400 RF 2.4 GHz 2MB+2MB Palm Laser PC with 24 keys	*
F7400 2+2 RF 37K TE PLUS	F7400 RF 2.4 GHz 2MB+2MB Palm Laser PC with 37 key terminal emulation plus	*
ACCESSORIES		
F970	IrDA Transceiver/Charger	94A15440X
F970/C	Charger	94A15450X
F970/V	Vehicle IrDA Transceiver/Charger (without power supply)	94A154390
F975/4	Multicharger - 4 slots	94A15476X
F975/8	Multicharger - 8 slots	94A15477X
FRBP7400	NiMH rechargeable battery pack	94ACC4340
FABP7400	Battery pack for alkaline batteries (without batteries)	94ACC4350
FCB232 D 9 F	RS232 serial connection cable for PC/AT T 8 M - D 9 F 2m	94A054000
FCB232 D 25 F	RS232 serial connection cable for PC/XT T 8 M - D 25 F 2m	94A054010
FCB485 for Systool	RS485 serial connection cable for SYSNET 2m	94A054020
FCB EAV	Eavesdrop cable kit 2+2m	94A054030
FACB7400	RS232 adapter cable kit (adapter + null modem/cable)	94A054240
DEVELOPMENT SYSTEM F7400	C libraries for software development	94A104670
DEVELOP. SYS. F7400+ C COMPILER	C libraries for software development + C Compiler	94A104680

X = 1 - power supply for USA; 2 - power supply for Europe; 4 - power supply for UK; 5 - power supply for Australia

* Order numbers vary from country to country depending on local homologation number

SPECIFICATIONS

POWER SUPPLY	Removable battery pack with rechargeable NiMH batteries; Removable battery pack with AA-size alkaline batteries; Supercapacitor to back-up system RAM during battery pack change; Lithium back-up to preserve set-up data	PROCESSOR	True 32 bit 486, 16 MHz
LIGHT SOURCE	Visible laser diode	DISPLAY	High-contrast graphic LCD with 96 x 64 pixels resolution and EL backlight feature; keyboard controlled contrast
SCAN RATE	36 scans/sec	SCREEN FORMAT	24 char. x 8 lines; 16 char. x 8 lines; 12 char. x 8 lines; 13 char. x 6 lines
MINIMUM RESOLUTION	0.15 mm	KEYBOARD	37 alphanumeric or 24 numeric key silicon rubber keypad
DEPTH OF FIELD	3 to 70 cm, depending on bar code thickness	WIRELESS COMMUNICATION	Formula One 2.4 GHz SSFH; Output 100 mW; internal antenna
READING ANGLES	±65° skew; ±55° pitch	SERIAL COMMUNICATION	Integrated IrDA communication port; Integrated full 9-pin RS232 port; RS232 or RS485 via F970 Transceiver/Charger
BAR CODES	EAN 8, EAN 13, UPC/A-E, MSI, Code 3/9 Standard-Extended, Code 2/5 Interleaved-Matrix-Industrial, Codabar, Code 128, Code 93, UCC/EAN128, Italian Pharmaceutical	<i>Data rate</i>	Up to 115 Kbps
SYSTEM MEMORY	2MB RAM, 2MB Flash; 8 MB RAM, 4 MB Flash; For system operation and virtual-disk data storage	DIMENSIONS	179 x 62 x 23/35 mm
RAM		WEIGHT	300 g with batteries included
FLASH	Non-volatile memory for virtual disk-storage of applications and data files, 384KB dedicated to DOS and BIOS	OPERATING TEMP.	0 to 50 °C
OPERATIVE SYSTEM	Datalogic proprietary BIOS; ROM DOS 6.22	AUTONOMY	33 hours with reading every 60" (NiMH) 40 hours with reading every 60" (alkaline) Lithium back-up to preserve set-up data
		DROP RESISTANCE	Resists drops from 1.2 m onto a concrete surface
		ENVIRONMENTAL PROTECTION	IP53



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We reserve the right to make modifications and improvements

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