

DATALOGIC

The first and largest European manufacturer of bar code readers, Datalogic is now one of the world's leaders, with a comprehensive range of CCD and laser scanners as well as batch and RF portable data terminals and associated software tools. Datalogic is quoted on the Milan stock exchange and boasts ISO9001 quality certification. Companies using Datalogic products include AEG, Esso Petroleum, FedEx, Johnson & Johnson, Peugeot-Citroen, Siemens and the United States Postal Services.

Datalogic Formula Wizard packaged solution

- complete entry-level data collection solution
- ideal for small businesses and retailers
- includes terminal, transceiver/charger, PSU
- entry-level software free to download

For the vast majority of small businesses and retailers, the complete Formula Wizard package represents a simple and cost-effective solution for entering the world of bar code data acquisition. At the heart of the package is Datalogic's Formula 732 portable laser scanning terminal. Fast and reliable in reading the most common bar code symbologies, it has an alphanumeric keypad and a large graphic high contrast display. The package includes the Formula 952 transceiver/charger for RS232 serial data communications with the host PC, together with serial cable and UK power supply unit.

By using Datalogic's EasyGen software, developers can quickly build personalised applications in Windows. The EasyGen Demo Version can be downloaded free of charge from www.datalogic.com, and contains five ready-to-use applications covering the most common data collection procedures. Alternatively, the Formula Wizard + EasyGen bundle includes the full version of the software. For more complex application needs, Formula 732 terminals are



Order codes - DATALOGIC FORMULA WIZARD

Item	Order code	
F732 Wizard Package	DL-941404004	
Wizard Plus Easygen - Full Version (Bundle)	DL-941404014	
Battery Kit For F730-734-B	DL-94ACC4220	
Set Of Batteries For F730-734-B (5 PCS)	DL-94ACC4230	
NiMH Battery Kit For F734-B & F734-E	DL-94ACC1110	
Set of NiMh Batteries For F734-B & F734-E	DL-94ACC1120	
Rubber Protection Boot	DL-94ACC4650	
Leather Holster For F732 Wizard	DL-94ACC4140	
Funcional Case For F73X With Swivel	DL-94ACC1266	
Belt Holster For F6XX/F73X With Swivel	DL-94ACC1268	

Datalogic Formula Wizard specifications

Operating system

Datalogic proprietary

Microprocessor

8-bit CMOS

Memory

■ 64Kb Flash for application; 512Kb RAM for data

Display

graphic high contrast LCD
 4 lines x 16 characters

Keypad

■ alphanumeric, 25 silicon rubber keys

Signal to operator

 2-colour LED; piezoelectric buzzer; programmable frequency and duration

Clock and calendar

 quartz controlled RTC programmable date and time

Interface

 infrared between terminal and transceiver/charger; RS232 between transceiver/charger and host PC

Battery

250 mAh NiCad rechargeable
 18 hour life reading every 45 seconds

Scanner

- laser bar code scanner: 36 scans/sec
- range: 3 to 70cm (1.2" to 27.6")
- laser classification: VLD class II
- supported symbologies: EAN-8, EAN-13, UPC/A-E, 2/5 family, Code 128, Code 93, Code 2/7, Code 3/5, 3/9 family, MSI, DELTA A IBM

Environment

- operating temperature: 0°C to 50°C
- resists drops onto concrete
- protected against dust and water

Dimensions and weight

- size: 165mm x 56mm x 32mm
- weight: approx 184g



mobile@work is the name of Datalogic's concept for a line of rugged portable data terminals designed for demanding industrial applications. These terminals are based on PC-like architecture and designed to be radioready, supporting the most widespread mobile standards such as 802.11b and OpenAir, depending on the PC card used. mobile@work units include terminal emulation connectivity for OS/400, Unix, Microsoft Windows platforms, including the most popular ERM systems such as SAP R/3. They also provide RS232 serial data communications and an IrDA port with mobile printers compatibility – Datalogic supplies a universal driver compliant with most mobile printers so that bar code labels and notes can be printed by the user in the field without cable links.

mobile@work terminals can be supplied with both 802.11b and OpenAir WLAN connectivity, such as PC-card, on board. Additional available connectivity tools include DL TN-Link, based on Active_X architecture, which enables the programmer to manage the mobile unit from the main application, and DL Web-Link, based on web technology, allowing communication between the database and mobile unit through a standard internet information server. Scanning options include high performance, long range and 2D readers, while single charging/comms cradles and multiple battery chargers are offered for each terminal.



F Mobile Solutions – guide to market leading mobile data products

Datalogic DL8600 Kyman rugged DOS terminal

- batch and 802.11b RF models
- ruggedised IP54 build
- choice of laser standard, LR and 2D
- free terminal emulation for AS400 and UNIX

The DL8600 Kyman is a truly rugged DOS-based terminal with advanced bar code scanning, data processing and communications features. It has been designed to provide the highest productivity and comfort in demanding environments, to link users to data and to each other in transport and logistics applications such as warehousing, docks, yards and on the road. The unit has a backlit,



Datalogic DL8600 DOS terminal specifications

Operating system

Datalight ROM-DOS 6.22 Datalogic proprietary BIOS

Microprocessor

■ 32-bit AMD486, up to 32MHz

Memory

2Mb or 8Mb RAM 2Mb or 8Mb Flash

Display

- graphic high contrast backlit LCD, 160 x 240 pixels, 16 levels of grey
- KB-controlled contrast
- 20 characters x 20 lines with default font

Kevnad

42-key alphanumeric silicon rubber

- removable pack with rechargeable Li-lon batteries
- supercapacitor to back up system RAM during battery pack change
- lithium batteries to preserve set-up
- local connection for fast battery charging and serial communication

DL FPS18 Power Supply (14VDC)

Radio communications

- WLAN, 802,11b or OpenAir compliant
- antenna: internal with diversity option
- frequency range: country dependent, typically 2.4GHz to 2.5GHz

Serial communications

- IrDA bi-directional port with mobile printers compatibility
- RS232 with data rate up to 115.2Kbps. including fast in-line battery charger

- laser bar code scanner standard
- light source: visible laser diode 650nm
- optional high performance, long range and 2D readers

Environment

- operating temperature: -10°C to 50°C
- withstands multiple 1.5m drops to
- IP54 protected against dust and water

Dimensions and weight

- size: 227mm x 83mm x 60mm
- weight inc batteries and WLAN PC card: approx 480g

Order codes - DATALOGIC DL8600 RUGGED DOS TERMINAL Item Order code

DL8600 Batch Portable Terminal 2+2MB DL8600/RF-3 Li Portable Terminal 802.11b - CISCO B8600-Li Spare Lithium Ion Battery Pack B8600-Nm Spare Ni-Mh Battery Pack CC8600 Comms Cradle / 2 Battery Charger

DL-942501000 DL-942601074 DL-94ACC1130 DL-94ACC1140 DL-94A151020 DL-94ACC4595

Datalogic DL9600 Viper rugged DOS terminal

- ultra-rugged IP65-rated construction
- built tough to withstand 1.8m drops
- well balanced, pistol grip design
- generous 1/4 VGA display
- all Datalogic *mobile@work* features

The DL9600 Viper is a tough, full-featured pistol grip DOS terminal designed for the harshest industrial environments, completely protected from mechanical shocks and sealed against water and dust penetration. The Viper has a 1/4 VGA, backlit display with 240 x 320 pixel resolution. The unit has a modular build, allowing keypad format, scanning engine and WLAN PC card to be specified to meet the requirements of the application. The versatile radio-

ready design of mobile@work terminals means that the Viper is equally suited to new or existing RF installations. **Datalogic DL9600 Viper specifications** As for DL8600 except: Display graphic high contrast backlit LCD, 240 x 320 pixels KB-controlled contrast 24 characters x 21 lines with default font

Kevpad

48-key alphanumeric or 32-key numeric, silicon rubber

Dimensions and weight

- size: 235 x 105 x 180mm
- weight inc batteries and WLAN PC card: 820g approx.

Datalogic Viper CE rugged terminal

- Windows CE 3.0 operating system
- large colour high visibility touch screen
- choice of batch, wireless and wireless-ready models
- all Datalogic *mobile@work* features

The Viper CE is a Windows CE-based pistol-grip terminal included in the rugged mobile@work product line for industrial environments. It is designed for comfort during extended use, being lightweight and well balanced. The quarter-VGA high contrast colour touch screen is ideal for both indoor and outdoor use, in all ambient light conditions. Power comes from rechargeable, long-life li-ion batteries. The Viper CE is offered in batch versions, or with integrated 802.11b data comms, or radio-ready, where most WLAN PC cards can be used. Specifications and order codes overleaf.



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Datalogic Viper CE terminal specifications

Operating system

■ Microsoft Windows CE 3.0

Microprocessor

■ Intel StrongARM SA-1110 206MHz

Memory

■ 64Mb RAM, 32Mb Flash

Display

 reflective TFT daylight readable colour display, 240 x 320 pixels, backlit, touch screen

Keypad

 48-key alphanumeric or 32-key numeric, silicon rubber

Power

- removable pack with rechargeable Li-lon batteries
- local connection for fast battery charging

Radio communications

- WLAN, 802.11b
- antenna: internal with diversity option
- frequency range: country dependent, typically 2.4GHz to 2.5GHz

Interfaces

- IrDA 1.0 integrated bi-directional port
- USB 1.1
- RS232 with data rate up to 115.2Kbps

Scanner

- laser 1D bar code scanner standard
- optional 1D long range or laser raster for 1D, PDF417 and stacked codes

Cradle

 single cradle with additional slot for spare battery; bi-directional comms through RS232/USB interface

Battery charger

■ 4-slot multiple; recycling option

Environment

- operating temperature: -10°C to 50°C
- multiple 1.8m drops to concrete
- IP54 protected against dust and water

Dimensions and weight

- size: 235 x 105 x 180mm
- weight inc batteries and WLAN PC card: 820g approx.



Above left: single cradle for Viper terminal; right: multiple battery charger

Order codes - DATALOGIC VIPER CE and VIPER TERMINALS Order code Viper CE and Viper terminals DL Viper CE-1112 HP RR Cisco Alpha/Numeric DL-943401001 DI Viper CF-2112 LB RR Cisco/S24 Alpha/Numeric DI -943401007 DL9600/RF-3 Cisco 2.4GHz 802.11bNiMH HP Scan Eng DL-942804066 DL9600/RF-3 Cisco 802.11B NiMH HP Scan TN Client DL-942804067 DL9600/RF-3-LR Cisco 2.4GHZ 802.11B NiMH LR Scan DL-942804113 DL9600/RF-3-LR Cisco802.11B NiMH LR Scan TN Client DL-942804114 DI 9600/RF-1 Proxim 2 4GHZ Open Air/NiMh HP Scan DI -942804001 DL9600/RF-1 Proxim Open Air/NiMh HP Scan TN Client DL-942804003 DL9600/RF-1-LR Proxim Open Air NiMH LR Scan Eng DL-942804080 DL9600/RF-1-LR ProximOpen Air NiMH LR Scan TN CLT DL-942804082 DL9600/RR Lucent Radio Ready NiMH HP Scan Eng DL-942804029 DL9600/RR-LR Lucent Radio Ready NiMH LR Scan Eng DL-942804108 DL9600/RR S24/Cisco Radio Ready NiMH HP Scan Eng DL-942804025 DL9600/RR-LR S24/Cisco Radio Ready NiMH LR Scan DL-942804104 DL9600 Viper - Batch Version 2+2MB DL9600 Viper - Batch Version 2+2MB LR Scan Engine DL-942704008 Viper accessories DL B-9600-LI Battery Pack (Lithium Ion) DL-94ACC4661 B-9600-NM Battery Pack (Nickel Metal Hydride) DL-94ACC4660 DL-94ACC4595 DL FPS18 Power Supply (14VDC) DL MBC-9600 4 Slot Battery Charger DI -94A154840 DL CC-9600 Single Comms / Charging Cradle DI -94A154841 CAB-4001 RS232 Cable (LEMO Conn) DL-94A054300 Shoulder Strap (Pack of 5) DL-94ACC1240 DL CAB-406 for USB direct connection to PC DL-94A051001 DI -94ACC1273 DL Kit Stylus Pen + Holder DL MBC-9600 4 Slot Battery Charger DL-94A154840 DL Carry Case Viper with belt swivel clip DL-94ACC1272

Functional Case For DL9600 (Pack of 5)

Datalogic DL9700 Rhino truck-mounted terminal

- WLAN 802.11b (WiFi) standard
- MILSTD810/IP65 and vibration proof
- half-VGA LCD screen
- VFD version to -30°C operating temperature
- choice of cordless or tethered scanner
- free terminal emulation for AS400 and UNIX



Datalogic's Rhino is a range of vehicle terminals designed to be mounted on fork lift, pallet, hand trucks and most types of warehouse vehicle. Built to a military standard, the unit is fully industrialised and features a backlit keyboard and a choice of LCD or VFD display, the latter designed for cold store/freezer applications. The Rhino can be used for both keyboard data entry and/or bar code scanning. Datalogic's ruggedised Dragon hand scanner connects direct to one of the Rhino's two RS232 serial ports. Alternatively, a cordless version of the Dragon can be used. These options provide standard, long range and VHD bar code scanning.

Datalogic DL9700 Rhino truck-mounted terminal

Operating system

■ MS DOS 7.1

Microprocessor

■ AMD Elan SC400 @ 32MHz

Memory

■ 2Mb RAM, 8Mb Flash

Display

 wide LCD (640 x 200 pixels) with backlight, or VFD (256 x 128 pixel)

Keyboard

- 57-key alphanumeric with constant illumination and audible key beep
- Universal ABCD layout to include IBM5250 and VT100/220 functions

Radio communications

- WLAN, 802.11b (WiFi)
- antenna: integrated or external, with diversity option
- frequency range: country dependent, typically 2.4GHz to 2.5GHz

Serial communications

- 2 x RS232-C
- COM2 with bar code option

Power

 internal wide range power supply (11-75 VDC), transient spike and overcurrent/voltage protected, reverse polarity protected, connects directly to vehicle battery

Peripherals

- tethered scanner: Dragon desk
- cordless scanner: Dragon mobile with Star-Modem

Accessories

- mounting bracket (included)
- power cable (included)
- serial cable (included)

Environment

- operating temperature:
 -30°C to 50°C (VFD display)
 0°C to 50°C (LCD display)
- IP65 sealed against dust and water

Dimensions and weight

- size: 320mm x 250mm x 90mm
- weight: approx 3.5kg excluding mounting bracket

Order codes – DATALOGIC DL8700 TRUCK MOUNT TERMINAL Item Order code

DL8700/RF-3 VMT ABCD Keyboard 5250 - CISCO DL-942654031
DL8700/RF-3 VMT ABCD Keyboard ANSI+VTHP-CISCO DL-942651000
DL8700/RF-4 VMT ABCD Keyboard 5250 - Lucent DL-942654033
DL8700/RF-4 VMT ABCD Keyboard ANSI+VT/HP-Lucent DL-942651002

P Mobile Solutions – guide to market leading mobile data products



STAR-System[™] is Datalogic's unique RF solution for mobile applications where the advantages of real-time wireless data communications are required but the budget won't stretch to an 802.11x system.

STAR-System™ RF narrow band solution

- affordable real-time wireless data comms
- seamless active roaming
- mix and match scanners and terminals
- no operator licence required
- easy development with supplied software tools

Datalogic's STAR-System offers a scalable solution for both simple applications, such as small warehouses with limited radio coverage, and complex projects, such as big plants requiring contiguous/noncontiguous large area coverage. Exploiting its unique seamless roaming capability, STAR-System allows operators to move in total freedom from office to office or through different departments/buildings with no need for constant logging in and out of the system.

The client server architecture, where each operation is driven by the RF device (client), combined with the CSMA/CA (carrier sense multiple access/collision avoidance) protocol type, boost overall performance so that STAR-System does not interfere with other RF equipment using the same frequency. A comprehensive range of Datalogic RF terminals and bar code readers is supported, and different types of device can be used on the same system. Please call about compatible products.

STAR-System components

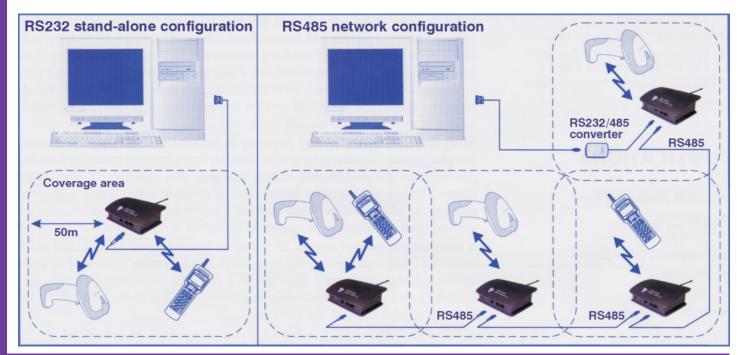
The core component is **Stargate**, a narrow band radio base station that allows wireless data transmission between several Datalogic RF devices and a Windows PC-based host system. A single Stargate covers an area of about 8,000m² (50m radius) outdoors, depending on the environment, manages up to 2,000 mobile devices and supports up to 255 simultaneous active clients in real time. Each Stargate has RS232 and RS485 high speed serial interfaces for standalone or network configurations, and up to 16 Stargates can be daisy-chained via RS485 links, using a single power supply.

STAR-Link is a software tool for those familiar with object programming and Windows 95/98/2000/ME/NT environments. It enables developers to associate each RF device with its own host application, establishing a real-time, fast, reliable and cost effective wireless connection between mobile users and most common databases and ERP/WMS systems. The included software provides a variety of application examples, while STAR-Link software can also be downloaded free of charge direct from Datalogic's website www.datalogic.com.

STAR-Modem makes it possible for any wired RS232 device to become wireless: bar code printers, industrial weighscales, and scanners can send/receive data to/from Datalogic's STAR-System in the same way as an RF wireless device. Among many devices, it supports Gryphon M and Dragon M bar code scanners. STAR-Modem is designed to perform reliably in demanding and harsh environments, including outdoors, and it can be mounted on forklift trucks without compromising its functionality, being resistant to vibrations and mechanical stress. Total mobility is assured by its automatic roaming function, small size and adjustable antenna.

With easy site surveying, fast installation, low component cost, no licence requirements and ease of use, STAR-System delivers a quicker return on investment than other comparable wireless solutions. Call the sales team for further details on 0870 750 4034.





F Mobile Solutions – guide to market leading mobile data products

Datalogic STAR-System specifications

Radio Communications

- radio frequency: 433.92 MHz
- radio power output: <10 mW
- radio range: 50m (164')
- roaming: seamless active roaming
- access protocol: CSMA/CA
- data transfer rate: up to 19,200 baud
- conformity: European ETSI standard EN 300 220-3

Mobile devices

- device type: Gryphon and Dragon RF bar code readers; Formula 725/RF and 734-E/RF mobile data terminals
- total: up to 2,000 mobile devices
- active: up to 255 mobile devices for each Stargate

Serial communications

 stand-alone: single Stargate, RS232 serial connection (max length 15m), RS485 serial connection (max length 1200m), communication speed up to 38.400 baud network: up to 16 Stargate RF base stations supported on RS485 serial connection (max length 1200m), communication speed up to 38,400 baud, single PSU for multiple Stargate

Software development

 data collection: STAR-Link (ActiveX for Windows 95/98/2000/ME/NT environments), ready to use Excel, Access, Visual Basic, C builder and Delphi application examples (free download from www.datalogic.com)

Stargate specifications

- electrical: 16-bit CMOS microcontroller, 128kb program memory, 128kb data memory, 9/30 Vdc
- environmental: working temperature
 0 to 50°C, storage temp -20°C to 70°C, humidity 90% non-condensing, protection class IP30
- mechanical: dimensions 141 x 111 x 52mm without antenna, weight 210g without fixing plate, LED functions indicator

Datalogic EasyGen application generator

- versatile, cost-effective solution
- no programming skills required
- includes PC-based terminal simulation
- free demo download available

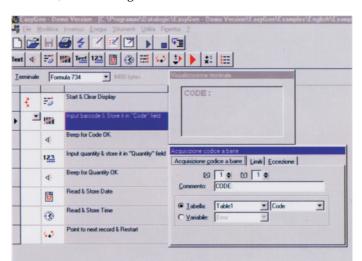
EasyGen is a complete development package which is easy to use and highly productive. Thanks to the user-friendly, icon-based graphical interface, users can quickly create their own personalised applications in Windows 95/98/2000/ME/NT environments.



By simply selecting the functions from the toolbar and completing some dialog boxes, without having to use complicated programming languages, in only a few minutes the user can build applications of average complexity that meet the most common

requirements of bar code data collection. The program includes tools which enable the integration of data with Visual Basic, Excel, Access, Delphi, etc, while an integral terminal simulator allows an application to be fully tested on the PC prior to uploading to the mobile unit

A demo version of EasyGen, which has five ready-to-use example applications, can be downloaded free of charge from Datalogic's wewbsite, **www.datalogic.com**.



EasyGen has a comprehensive and intuitive tool bar giving access to the 14 functions most commonly required to create applications

	725 725	1234567890	One Way	1900	
			One Way	1900	
	725	9876543210	One Way	1900	
	725	4567893210	Two Way	1900	
	734	904004240	Two Way	1900	
	734	9C4004220	Two Way	1900	
	734	4902520173607	Two Way	1900	
	734	4902520193834	One Way	1900	
	660	4006381333627	One Way	1900	
0	660	4006381333634	One Way	1900	
1	660	9876543210	One Way	1900	
2	1500	904004240	One Way	1900	
3	1500	4006381333634	One Way	1900	
4	1500	4019976003898	One Way	1900	
5	1500	1234567890	One Way	1900	
6	1500	55555	One Way	1900	
7	1500	1420563	Two Way	1900	
8	734	1234567890	Two Way	1900	
9	734	5030159000915	Two Way	1900	
10	734	904004240	Two Way	1900	
H	734	023942389651	Two Way	1900	
12	734	1234567890	One Way	1900	

Order codes – STAR SYSTEM COMPONENTS				
Item	Order code			
Access Points				
AP-352 EU CISCO W/ANT 802.11b Access Point	DL-946301013			
AP-352 EU Rugged CISCO W/O ANT 802.11b	DL-946301015			
ANT4941-EU 2.2 DBI Dipole Rubber Duck Antenna	DL-94ACC1010			
ANT3195-EU 3 DBI Patch Wall Mount Antenna	DL-94ACC1020			
ANT1728-EU 5.2 DBI Omni Ceiling Mount Antenna	DL-94ACC1030			
ANT1729-EU 6 DBI Patch Wall Mount Antenna	DL-94ACC1050			
ForWin development software				
ForWin Developer (5 Licences)	DL-94A101011			
ForWin RunTime 5 (5 Licences)	DL-94A101012			
ForWin RunTime 10 (10 Licences)	DL-94A101013			
ForWin RunTime UL (Unlimited Licences)	DL-94A101014			
ForWin Start Up Kit (Developer & RunTime 5)	DL-94A101015			

Development for Datalogic industrial terminals

Windows CE SDK for Datalogic Terminals – This is a set of libraries which enables the development of applications in the Windows CE environment for Datalogic Viper CE terminals.

Terminal Emulation Client – DL-TCL terminal emulation software, embedded in all Datalogic RF DOS terminals, connects them directly to the host systems. Through industry standard TCP/IP protocol, the DL-TCL enables comms with legacy systems and Windows-based applications via VT100, VT220 and IBM5250 terminal emulation.

Web-based Application Generator DL Web-Link brings web technology into wireless data collection applications. HTML is used via ASP pages to connect databases to the mobile units in the field. A text-based HTML browser for the mobile units is provided in this package designed for all Datalogic DOS-based terminals.



Order codes – DATALOGIC DEVELOPMENT TOOLS				
Item	Order code			
CA51 8051 Compiler Assem Kit V6 - F6/F7xx & Wizard	DL-94A104890			
Development System For Formula 6/7xx and Wizard	DL-94A104860			
Development System F7400	DL-94A104670			
Development System F7400 and C Compiler	DL-94A104680			
Development System F8500	DL-94A104700			
Development System F8500 and C Compiler	DL-94A104010			
Utility Tools Advanced Edition F660 For WIN 95/NT	DL-94A104150			
Utility Tools Advanced Edition F725 For WIN 95/NT	DL-94A104160			
Utility Tools Advanced Edition F734 For WIN 95/NT	DL-94A104170			
OLE For Formula WIN 95/NT	DL-94A104300			
Systools Advanced Edition WIN 95/NT	DL-94A104310			
Easygen For Formula 660/7xx and Wizard	DL-94A104850			
TN Link Licence - Up To 10 Users	DL-94A104870			
TN Link Licence - Unlimited Users	DL-94A104880			
Unlimited User Upgrade (Must Have 10 User Licence)	DL-94A104920			
Formula TN Client Terminal Emul SW F8500/7400/9600	DL-94A104570			
Terminal Emulation For PDC DOS	DL-94A101010			
OverLay Kit For F7400 TE 37K	DL-94ACC1100			
OverLay Kit For F8500 TE 37K	DL-94ACC1090			
OverLay Kit DL9600 TE 32K	DL-94ACC1070			
OverLay Kit DL9600 TE 48K	DL-94ACC1060			