

# Programmable Data Terminal

510



- Ideal for time & attendance, production monitoring, loyalty card applications
- Multiple Readers
- Network up to 99 units\*

# 510 Programmable Data Terminal

## Specifications

### Electrical

Voltage:	12V +/- 5% DC
Power Consumption:	200mA maximum with LCD back light off and no external devices attached

### Environmental

Temperature:	0° C~50° C (operating) -20° C~70° C (storage)
Humidity:	20%~90% non-condensing (operating) 10%~95% non-condensing (storage)

### Physical

Weight:	1kg maximum including all batteries
Housing:	ABS plastic
Color:	Gray
Dimensions:	260mm (L) x 124mm (W) x 98mm (H)

### Indicator

Buzzer:	4 selectable volumes
Power LED:	Red
Good Read LED:	Green
Battery Low LED:	Yellow
Function LEDs:	Red X 4
LCD display:	20 x 2 characters LCD display with tunable LED back-light and adjustable viewing angle

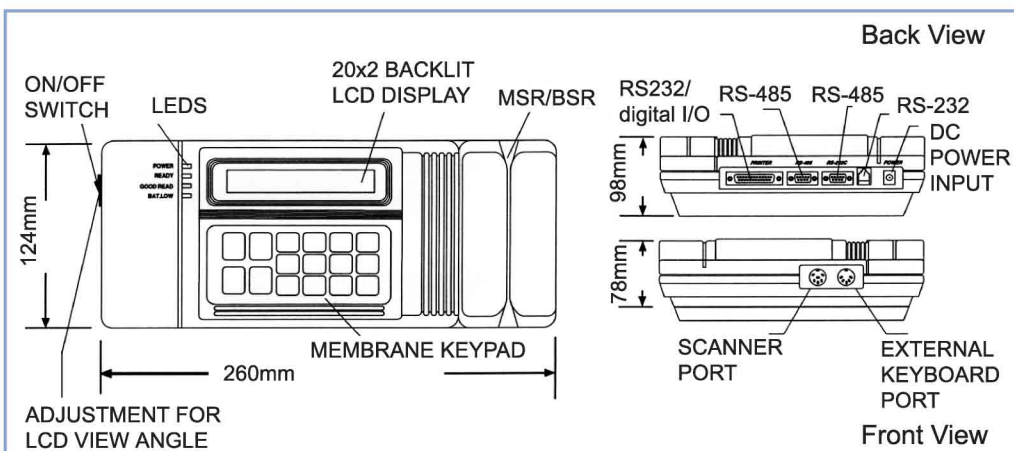
### Memory

Program Memory:	128 KB flash memory
Data Memory:	128 KB to 512KB SRAM on an 128 KB base, with 3.6V NiCd rechargeable battery backup
System Clock:	16 bit CPU running at 9.8304MHz

### Safety & Regulatory Approvals

FCC class-A, CE, C-tick

### Dimensions & Configuration



### Input Device

Built-in Reader:	An optional Barcode Slot Reader, up to dual track Magnetic Stripe Reader or Proximity Reader can be Included
Scanner Ports: (BCR)	Can be used to attach Barcode Slot, Wand, CCD or Laser. Any TTL output device.
Built-in Keypad:	Membrane keyboard with 16 keys including 4 function keys
Keyboard Port: (KBD)	PC/AT compatible keyboard can be attached for data entry or any keyboard wedge interface device
Symbology Supported:	Code 39/Full ASCII, Italy & French Pharma Code, Industrial 2 of 5, Interleave 2 of 5, Matrix 2 of 5, Code 93, Code 128, EAN 128, MSI, EAN 8 & 13, UPCA & E, Plessey, Codabar

### Battery

Operation Battery:	8.4V, 1400mAh battery for operation backup
Operation Battery Control:	The battery voltage can be monitored. An on-board self-shutdown circuit is included to prevent over-discharge of battery
Backup Battery:	3.6V, 60mAh NiCd battery for memory and calendar backup

### Calendar

Fine-tunable calendar chip with battery backup

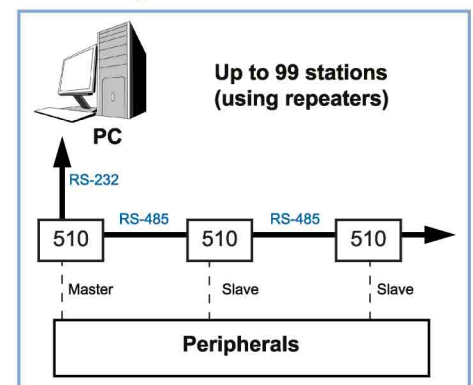
### Digital Input/Output

Types of Input:	2 photo-isolated digital inputs can be used to monitor external devices.
Types of Output:	2 photo-isolated digital outputs can be used to control external devices such as alarm, door lock and so on.

### Communication Ports

RS-485	Multi-drop communication at 76.8 kbps, up to 32 stations can be connected together without repeaters. Using repeaters, up to 99 stations.
RS-232	2 x RS-232 ports are equipped for host computer communication and/or external connection such as printer.

### Networking Architecture



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