

## 5000/5100/520 data terminals

Complete control where you need it most



520

		5000 / 5100	520
<b>Electrical</b>	Voltage	12V ±5% DC	
	Power consumption	Operating 50 mA with all card devices attached and battery charging status 200 mA	0.5 W maximum with LCD backlight off and no external devices attached
<b>Environmental</b>	Temperature	0° to 45°C operating -20° to 60°C storage	0° to 50°C operating -20° to 70°C storage
	Humidity (non-condensing)	20% to 90% operating 10% to 90% storage	20% to 90% operating 10% to 95% storage
<b>Physical</b>	Weight	1.6 kg maximum including backup batteries	1 kg including all batteries
	Housing	Black ABS plastic	Dark grey ABS plastic
	Dimensions L x W x H	150 x 150 x 50 mm	234 x 182 x 65 mm including battery holder
<b>Indicators</b>	Buzzer	Programmable, 1 kHz to 4 kHz	External volume control
	External speaker/earphone	–	Popular 8Ω-type earphone or amplifier optional
	LCD display	5100 only: 128 x 64 graphic dots FSTN with LED backlight; displays 8 x 4 lines Chinese characters	Supports 128 x 64 or 240 x 64 STN-type graphic LCD display with LED backlight
	LED	4 color LEDs	2 LEDs
<b>Memory</b>	Program memory	2MB flash memory	512K flash memory
	Data memory	1MB SRAM on-board, 2MB to 8MB available	128K on-board, 512K to 2MB available
	CPU	16-bit CPU running at 22.1184 MHz	16-bit CPU running at 14.7456 MHz
<b>Input device</b>	Built-in slot / RFID reader	Mifare or EM	Optional barcode slot reader or magnetic stripe reader
	Reader ports	1 external reader port; can attach TTL RS232 reader	2 reader ports for barcode slot, wand, laser or up to dual-track magnetic stripe readers
	Symbology supported	–	Codabar, Code 39/Full ASCII, Code 93, Code 128, EAN 8 & 13, GS1-128, Industrial 2 of 5, Interleave 2 of 5, Italian Pharma Code, Matrix 2 of 5, MSI, Plessey, UPCA & E
	Built-in keypad	21 backlit rubber keys including 6 function keys	30 rubber keys including 8 function keys
	External keyboard	PS/2 type through mini-DIN connector (optional)	PS/2 type through mini-DIN connector
<b>Battery</b>	Operation battery	Optional 7.4V 2000 mAh rechargeable CGR18650A Panasonic battery	Up to 2 mobile phone battery pack, optional 1.2V x 6 1200 or 1800 mAh rechargeable NiMH batteries
	Operation battery control	Battery voltage can be monitored. On-board self-shutdown circuit prevents over-discharge of battery.	
	Backup battery	7.4V, 2000 mAh Li-ion battery (optional)	3.6V, 60 mAh NiMH battery
<b>Calendar</b>		Calendar chip with battery backup	Fine-tunable calendar chip with battery backup
<b>Digital input/output</b>	Input/output	Up to 4 digital inputs and 4 digital outputs	
	Types of input	Photo coupler can monitor external devices	CMOS level or photo coupler can monitor external devices
	Types of output	Relay output can control external devices such as alarm, door lock switches	CMOS level, open collector or relay output can control external devices such as alarm, door lock switches
<b>Communication ports</b>		RS232 and RS485 (standard)	COM1 and COM2 configurable for RS232/RS485 (half and full duplex)/20mA current loop, COM3 is fixed to RS232
<b>Optional cards</b>		TCP/IP, 10/100 Base, IEEE 802.11 b	On-board TCP/IP
<b>Safety and regulatory approval</b>		CE, C-Tick, FCC Class-A	



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