

8100 Series Light Weight Mobile Solution

Compact
Low Power
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■ Battery Charger



■ Rechargeable Battery Pack

■ Base Station



■ Base Mounting Bracket



■ 350 TCP/IP Gateway



■ USB VirtualCom Adapter

- Programmable in: BASIC, C & Application Generator
- 256KB data memory + 1MB program memory
- Ideal for Light Duty Inventory Application
- 4~6 Channel auto-switching architecture
- 16 bases and up to 99 portable terminals in one system
- Better line-of-sight, up to 1,000 Mtrs

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Specifications

RF Terminal

Model 8110 (433 MHz)	Model 8150 (2.4 GHz)
<ul style="list-style-type: none"> Frequency: 433.12~434.62 MHz Modulation: FSK Data Rate: 9600 bps Channels: 4 Output Power: 10mW Coverage: 200M line-of-sight 	<ul style="list-style-type: none"> Frequency: 2.4000~2.4835 GHz Modulation: Direct FM Data Rate: 19200 bps Programmable Channels: 6 Output Power: 100mW Coverage: 1,000M line-of-sight

BASE Station

Model 3510 (433 MHz)	Model 3550 (2.4 GHz)
<ul style="list-style-type: none"> Frequency: 433.12~434.62 MHz Interface: RS232 Baud Rate: 115,200 bps Base to Base: RS485 Maximum Bases/System: 16 Maximum Terminals/Base: 15 Maximum Terminals/System: 45 Output Power: 10mW Coverage: 200M line-of-sight 	<ul style="list-style-type: none"> Frequency: 2.4000~2.4835 GHz Interface: RS232 Baud Rate: 115,200 bps Base to Base: RS485 Maximum Bases/System: 16 Maximum Terminals/Base: 99 Maximum Terminals/System: 99 Output Power: 100mW Coverage: 1,000M line-of-sight

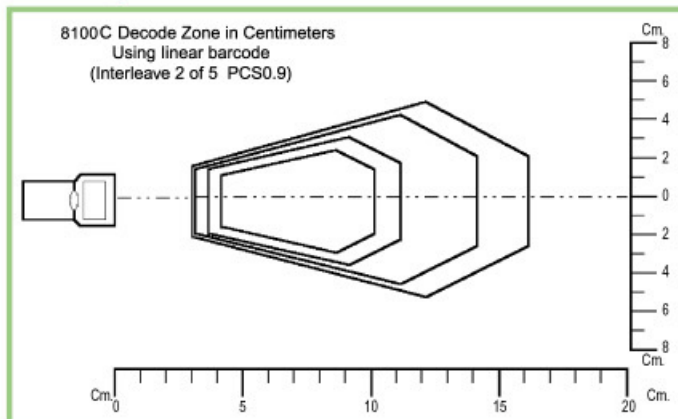
SYSTEM

- Auto Roaming or Fixed Channel Selectable
- Single or Multi-channel Selectable
- Multiple Bases Supported
- Tuneable Power Output (from -5dBm to 10dBm)
- Can Be Connected to Ethernet Network (with CipherLAB 350)
- Can Be Connected to USB Port (with CipherLAB 306)

Safety & Regulatory Approvals

- FCC class-A, CE, C-tick

Reading Performance



Power

Operation battery :	Two AAA size removable / rechargeable
Backup battery :	3.0V, 7.0mAh, rechargeable Lithium
Operating hour:	Over 20 hours (with Alkaline batteries)

Dimensions

Size:	145mm (L) x 63mm (W) x 42mm (H)
Weight:	210g (including batteries)

General Characteristics

CPU:	16-bit CMOS, low power consumption
Program memory:	1MB flash memory
Data memory:	256KB SRAM
Display:	128x64 graphic dots FSTN with LED back-lit
Keypad:	21 rubber keys

Indicator

Buzzer:	Programmable, 1KHz to 4KHz
LED:	Dual-color, green and red

Programming Language

"C", "BASIC", and a Windows-based Application Generator

Laser Scanner (8100L)

Light source:	Visible Laser diode operating at $670 \pm 15\text{nm}$
Scan rate:	36 ± 3 scans/sec
Scan angle:	$42^\circ \pm$ nominal
Depth of field:	5cm ~ 95cm, depends on barcode resolution

CCD Scanner (8100C)

Resolution:	0.125mm (5mil) ~ 1.00mm (40mil)
Depth of field:	6cm ~ 13cm
Scan rate:	100 scans/sec

Environmental

Operating Temperature:	-20 to 60°C
Storage Temperature:	-30 to 70°C
Humidity:	Non-condensed 5% to 95%
Shock resistance:	1.2m drops onto concrete

Interface

RS-232:	Transmission speed up to 115.2k bps
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Accessories

RS-232 cable, Cradle, RF base station, Battery Charger
Rechargeable Battery Pack

