# 8100 Series Light Weight Mobile Solution





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)
• Frequency: 433.12~434.62 MHz	• Frequency: 2.4000~2.4835 GHz
Modulation: FSK	Modulation: Direct FM
Data Rate: 9600 bps	Data Rate: 19200 bps
Channels: 4	Programmable Channels: 6
Output Power: 10mW	Output Power: 100mW
Coverage: 200M line-of-sight	Coverage: 1,000M line-of-sight

#### **BASE Station**

ı	Model 3510 (433 MHz)	Model 3550 (2.4 GHz)	
	• Frequency: 433.12~434.62 MHz	• Frequency: 2.4000~2.4835 GHz	
Interface: RS232		Interface: RS232	
ı	<ul> <li>Baud Rate: 115,200 bps</li> </ul>	Baud Rate: 115,200 bps	
ı	Base to Base: RS485	Base to Base: RS485	
ı	Maximum Bases/System: 16	Maximum Bases/System: 16	
ı	Maximum Terminals/Base: 15	Maximum Terminals/Base: 99	
ı	Maximum Terminals/System: 45	Maximum Terminals/System:99	
ı	Output Power: 10mW	Output Power: 100mW	
	Coverage: 200M line-of-sight	Coverage: 1,000M line-of-sight	

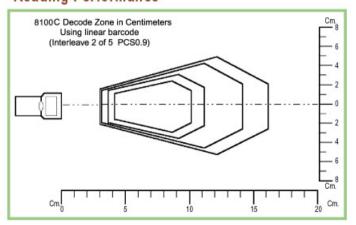
#### SYSTEM

- · 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 ± 15nm
Scan rate:	36 ± 3 scans/sec
Scan angle:	42° ± 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

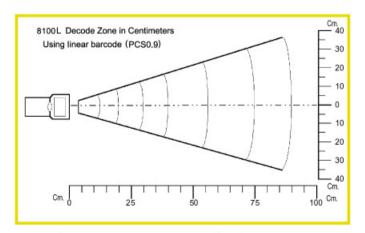
#### Environmental

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

#### Accessories

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





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