

# 8300 SERIES

## Industrial Mobile Solutions

Wireless  
Freedom  
Wireless  
Freedom



■ Base Station

Spread Spectrum  
2.4GHz

Narrow Band  
433MHz



■ Access Point

**NEW**

BlueTooth  
Technology

IEEE-802.11b

■ TCP/IP Connection

■ USB Connection

- Programmable in: BASIC, C & Application Generator
- 1MB program memory + 256KB data memory
- Two keypad layouts, 24 or 39 keys
- Ideal for Industrial, Harsh Environment - IP65
- up to 99 portable terminals per system
- Better line-of-sight, up to 1,000 Mtrs
- up to 36 Hrs of operation per charge

**CIPHER LAB**



# 8300 SERIES INDUSTRIAL MOBILE SOLUTIONS

## Specifications

### RF Terminals

Model	8310 NB-433 MHz	8350 SS-2.4 GHz	8360 BlueTooth Class 1	8370 IEEE-802.11b
• Frequency:	433.12~434.62 MHz	2.4000~2.4835 GHz	2.402~2.4835 GHz	2.4~2.5 GHz
• Modulation:	FSK	FHSS	GFSK, 1Mbps, 0.5BT Gaussian	DSSS with DBPSK (1Mbps) DQPSK (2Mbps), CCK (5.5 & 11Mbps)
• Data Rate:	9,600 bps	19,200 bps	433 Kbps	11, 5.5, 2, 1Mbps auto-fallback
• Channels:	4	6	Standard	Standard
• Power:	10mW MAX	100mW MAX	100mW MAX	100mW MAX
• Coverage:	200M line-of-sight	1,000M line-of-sight	250M line-of-sight	250M line-of-sight
• Standard:	ETSI	ISM	Bluetooth Spec. V1.1	IEEE 802.11b & Wi-Fi compliance

### Power

Operation battery:	Li-ion 3.7V, 700mAh			Li-ion 3.7V, 1800mAh
Backup battery:	3.0V, 7.0mAh, rechargeable Lithium			
Working hours:	24 hours	8 hours	36 hours	16 hours

### Environmental

Operating Temperature:	-20° C to 60° C	0° C to 50° C
Storage Temperature:	-30° C to 70° C	-20° C to 70° C
Humidity:	Non-condensed 5% to 95%	Non-condensed 10%~90%
Shock resistance:	1.2m drops onto concrete	
EMC regulation:	FCC class-A, CE	
IP Rating:	65	

### BASE Stations & Access Points

Model	3510 (433 MHz)	3550 (2.4 GHz)	3560 (BlueTooth Class 1)	Access Point
• Frequency:	433.12~434.62 MHz	2.4000~2.4835 GHz	2.402~2.4835 GHz	Works with Commercially Available Standard IEEE-802.11b Access Point
• Base to PC:	RS232	RS232	Output Power: 100mW	
• Baud Rate:	115,200 bps	115,200 bps	Profile: BNEP	
• Base to Base:	RS485	RS485	Ethernet Connection: 10/100 Base-T	
• Bases/System:	16	16	Protocol: TCP/IP, UDP/IP, ARP/RARP, DHCP for IPv4	
• Terminals/Base:	15	99	Piconet Support: up to 7 terminals	
• Terminals/System:	45	99		

### Communication

RS-232:	Transmission speed up to 115.2k bps
IrDA:	Standard 1.0 compatible, up to 115.2k bps
Serial IR:	Up to 115.2k bps transmission rate

### 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-light
Keypad:	24 Numeric or 39 Alphanumeric rubber keys

### Dimensions

Size:	196mm (L) x 77mm (W) x 44.5mm (H)
Weight:	280g (including batteries)

### Programming Language

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

### Accessories

RS-232 cable, USB cable, Charging & Communication Cradle



### Warranty

1 Year

### Dimensions



\* Specifications are subject to change without prior notice.



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