

8300 SERIES

Industrial Mobile Solutions

Wireless
Freedom
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■ 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	Direct FM	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	+20dBm (Class 1)	13~17dBm
• Coverage:	200M line-of-sight	1,000M line-of-sight	250M line-of-sight	250M line-of-sight
• Standard:	N/A	ISM	Bluetooth Spec. V1.1	IEEE 802.11b & Wi-Fi compliance

Power

Operation battery:	Li-ion 3.7V, 700mAh			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 60° 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	

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: +20dBm	
• Baud Rate:	115,200 bps	115,200 bps	Profile: BNEP V1.0 NAP	
• Base to Base:	RS485	RS485	Ethernet Connection: 10 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		

- Auto Switching (Roaming) or Fixed Channel Selectable
- Tuneable Power Output (from -5dBm to 10dBm)
- Ethernet Connection Via CipherLAB 350
- USB Connection Via CipherLAB 306

Communication

RS-232:	Transmission speed up to 115.2k bps
IrDA:	Standard 1.0 compatible, up to 115.2k bps
High Speed 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-lit
Keypad:	24 Numeric or 39 Alphanumeric rubber keys

Dimensions

Size:	196mm (L) x 77mm (W) x 44.5mm (H)
Weight:	280g (including batteries)
IP Rating:	65

Programming Language

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

Accessories

RS-232 cable, USB Adaptor cable, Charging Cradle

Dimensions



* Preliminary Specifications - subject to change without notice.



■ Cradle



■ Battery Charger



Headquarters
Syntech Information Co., Ltd.
 5F, No. 196-3, Ta-Tung Road,
 Sec. 3, Hsi-Chih,
 Taipei Hsien, Taiwan
 TEL: +886 2 8647 3300
 FAX: +886 2 8647 1155
 www.cipherlab.com.tw

USA
Syntech West Inc.
 3404 57th Street NW Suite B
 Gig Harbor, WA 98335
 U.S.A.
 TEL: +1 253 858 7906
 FAX: +1 253 858 7713
 www.cipherlab.com