

*Wireless Communications Partner*

# Introduction of DuraFon 1X

**August 5, 2004**

# Long Range and Tough

## DuraFon 1X

*A TRULY INDUSTRIAL CORDLESS PHONE FOR HIGHLY DEMANDING WORKING ENVIRONMENT*

- **Rugged handset design ~ durable and reliable**
- **Digital broadcasting mode**
- **Multiple base configuration**
- **Programmable software key to execute PBX functions**
- **High capacity Li-ion to maximize talk/ stand-by time**



# Target segments

*Workers in various industrial segments who need to talk on the go.....*

- Self storage/ distribution warehouse
- Retailing and grocery
- Auto dealer
- Nursery/ green house
- Golf
- Assisting living
- Manufacturing plant



*Unique Selling Proposition~*

# Durable handset design



- Double coding material to provide excellent protection for the handset
- Grid design on the side so that it's easy to hold the phone
- Special protection around LCD
- Use alternative tall handset antenna to extend range

*Unique Selling Proposition~*

# Durable handset design



- Loud speaker for noisy industrial environment
- High capacity Li-ion battery to extend battery life: 8 hours talk time and 30 hours stand-by time
- Built-in 2.5mm headset jack on the bottom



*Unique Selling Proposition~*

# Longest Range & Widest Coverage



Indoor~ Up to 250,000 sq. ft. such as warehouse environment



Outdoor~ Up to 3,000 acres such as farm land



Vertical ~ Up to 12 floors such as high rise building

*Unique Selling Proposition~*

# **Splash water resistant**

*Robust housing design~ pass IEC 529  
IPx2 water resistant test*

- ideal for workers in  
greenhouse/  
nursery industries



*Unique Selling Proposition~*

# Half duplex broadcasting

Enable immediate announcement to enhance communications efficiency



Pressing "BROADCAST"  
key on the handset

1. One handset



2. All handsets or a  
group of handsets



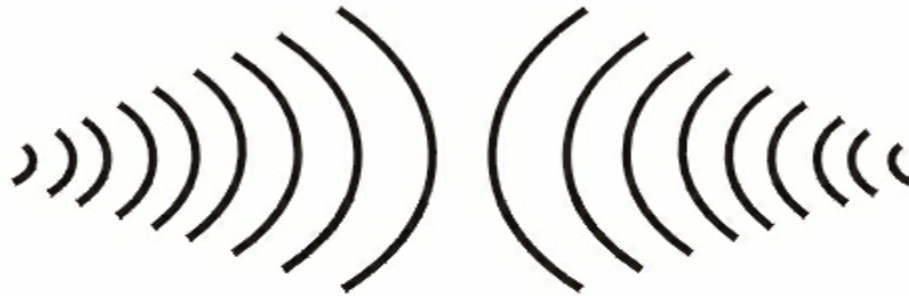
3. Base station



*Unique Selling Proposition~*

# Full duplex 2-Way Radio

provide off-site communication



Pressing "2-Way" key on the handset followed by the handset ID number



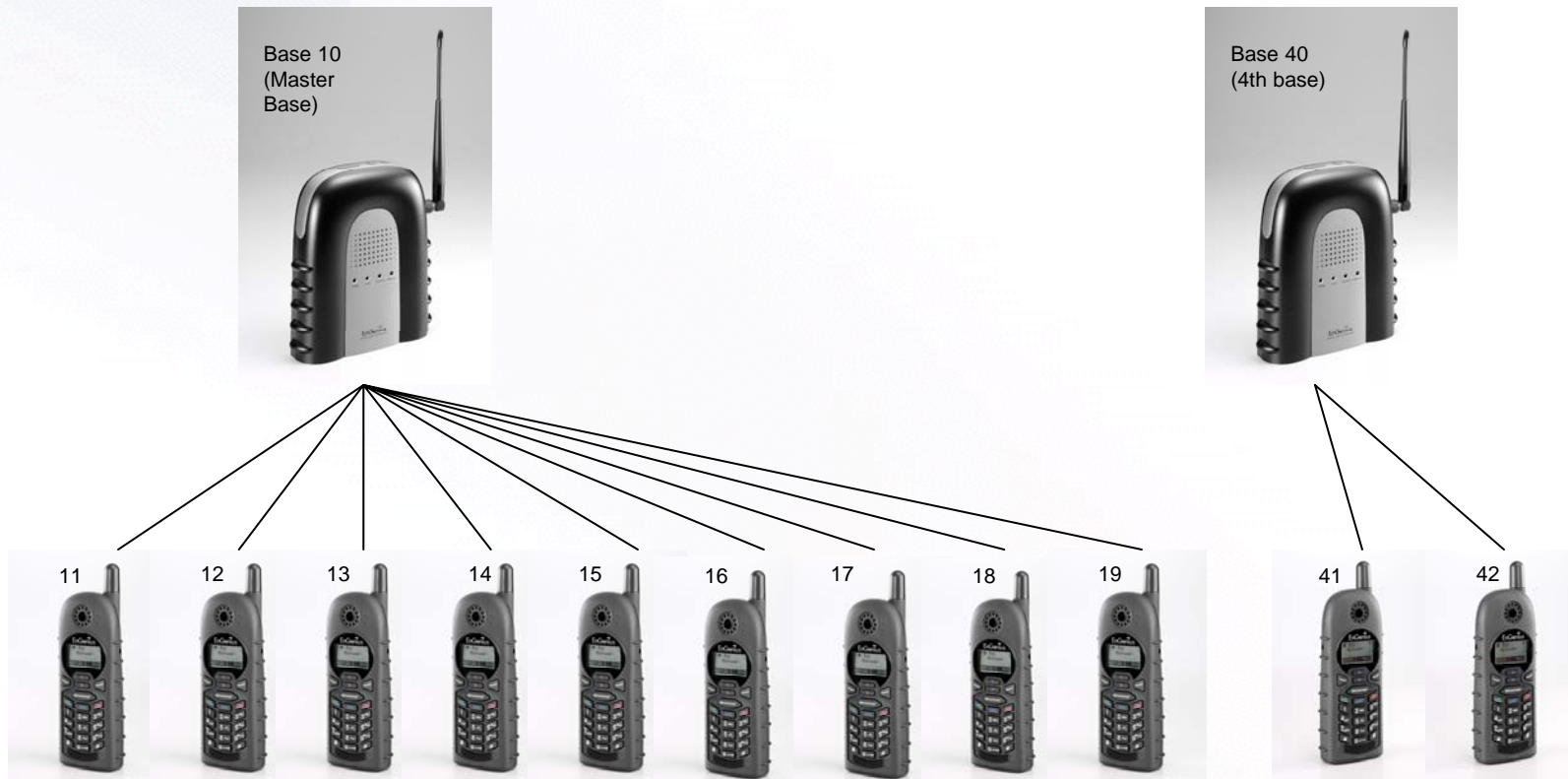
Two -way Radio  
Independence of Base  
and won't tie up the line

*Unique selling proposition~*

## Multiple handset and multiple base

- up to 9 handsets can be registered onto the base
- each handsets can cross register to 4 different base station

Expandable to be  
4 line, 36 handsets  
system



# Detail features lists

- Phone book: 30 entries
- Key guard
- 3 type call logs
- Call transfer
- Call on hold
- Mute
- Any key answer
- Adjustable flash time
- Ringer/ vibrator
- Text messaging
- Soft menu key
- User friendly MMI
- Transmit power control
- 4-line LCD display
- Dual mode Caller ID
- 2.5mm headset jack
- Programmable soft key to execute PBX function

# Technical Specification

Electrical Specifications	Base Station	Portable Handset
Frequency	902-928 MHz	902-928 MHz
RF Power	Peak: 708 mW Average: 304 mW	Peak: 708 mW Average: 76 mW
Channel Spacing	200 kHz	200 kHz
Number of Channels	128	128
Modulation	MSK	MSK
Multiple Access	Frequency Hopping TDMA	Frequency Hopping TDMA
Frequency Hopping Rate	100 per second	100 per second
TDMA Frame Length	10 ms	10 ms
Number of Slots/Frame	8	8
Number of Users/Carrier	4	4
Receiver Sensitivity	< -108 dBm (@ BER 10 <sup>-2</sup> )	< -108 dBm (@ BER 10 <sup>-2</sup> )
Antenna Connector	Reverse TNC	Non-standard
Antenna Gain	2 dBi 5 dBi External (optional)	2 dBi (Long) 0 dBi (Short)
TX Power Control Range	NA	100-708 mW
Telephone Interface	RJ11 x 4	NA
Speech Coding	8 kbps G.729A	8 kbps G.729A

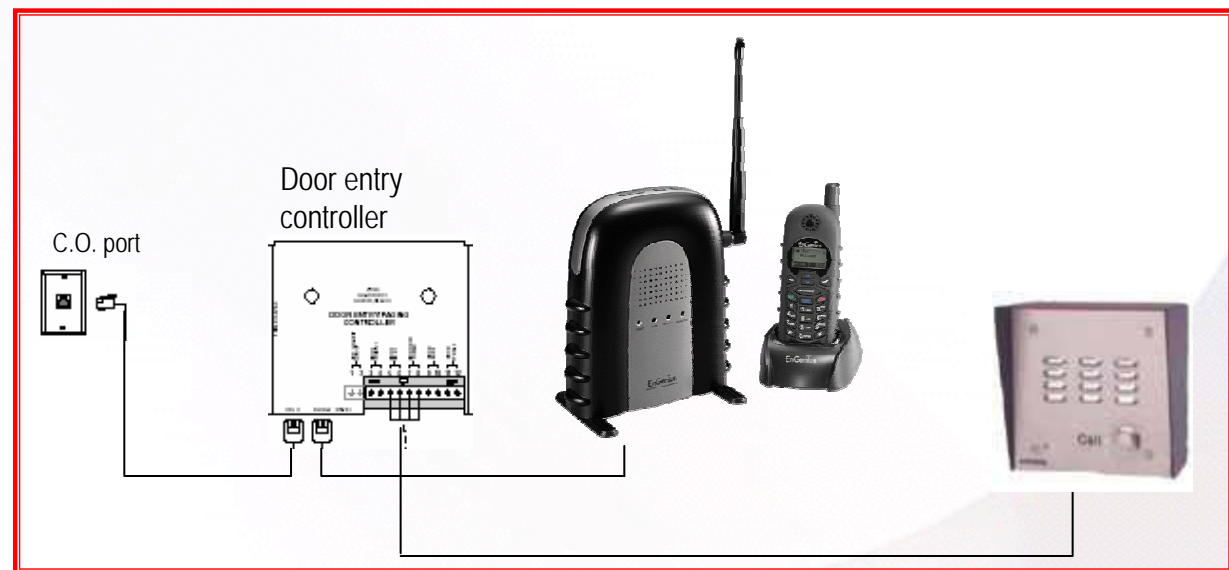
# FAQ: How to install 2nd, 3rd, and 4th base unit

- If you are originally using SN-920 Ultra and purchase DuraFon 1X as replacement, the registration procedure is silently different.
  - Step 1: press MENU-6 and select 3 “SET BASE”
  - Step 2: press the REG key on the master base
  - Step3: press register to finish the registration procedure.
- After the registration complete, handset 11 and handset 21 can 2-WAY intercom with each other



# FAQ: Can I install a door entry device with DuraFon 1X?

- Yes. You can install a door entry device with DuraFon 1X. Since DuraFon 1X is the single port phone equipment, please be aware of the following aspects:
  - the door entry device that you purchased need to workable with single port phone system
  - otherwise, you need to purchase an extra door entry controller (installation configuration as below)



# FAQ: How to extend the coverage

- Option 1: using tall handset antenna
- Option 2: install the high gain external antenna
- Option 3: using antenna splitter and install two high gain external antennas with base

