

# EnGenius:

## *Installer Workshop*

Industrial Cordless Phone Systems



Welcome to the Installer webinar! If you have a demo unit, grab it now so you can join in the hands-on training.

# EnGenius

## Industrial Cordless

**Longest Range** Cordless Phone Systems available for North America  
**12 floors** in building penetration  
**250,000 sq. ft.** in a warehouse or retail environment  
**3,000 acres** on a farm environment

Will work behind an **analog port** of a PBX or Key system

Does **NOT** operate on WLAN, 2.4 GHz or 5 GHz, frequencies in order to reduce potential interference.

Handset that comes with the base unit is **pre-registered** to that base.



# EnGenius

## Industrial Cordless

### DuraFon 1X

One Line System



### DuraFon 4X

Four Line System



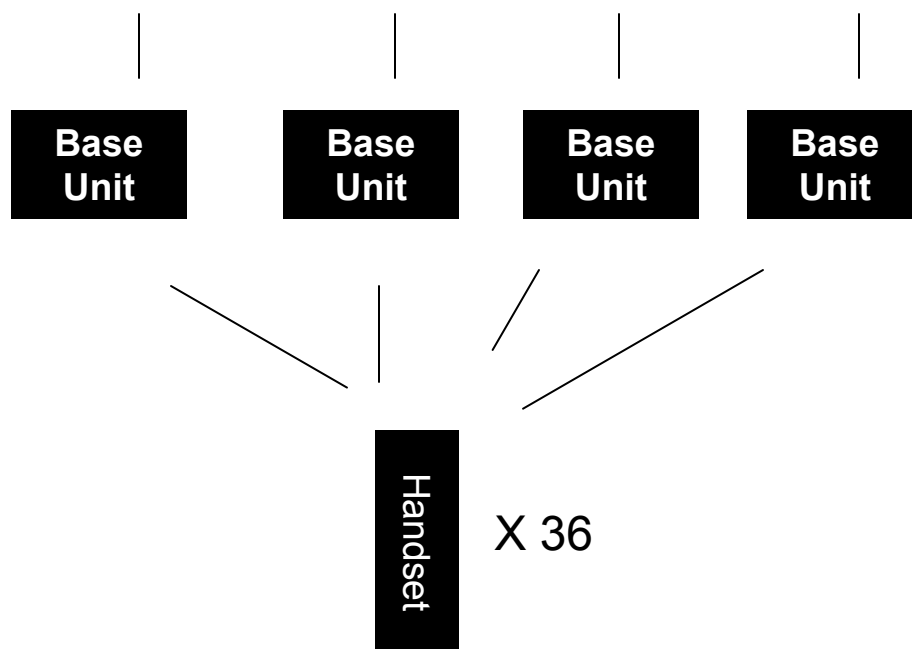
Sorry, not compatible with each other

# Expandability

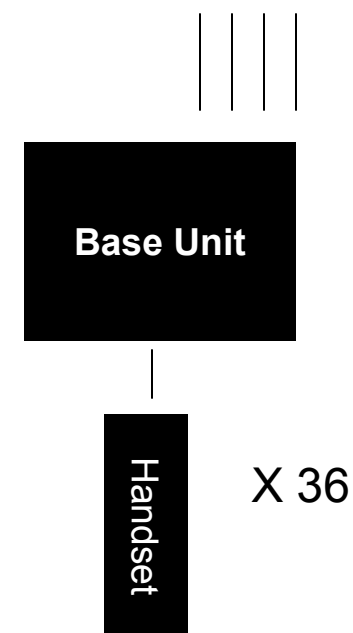
## Workgroup Configuration

- For workgroups who do not need a dedicated extension
- Examples: Teachers, warehouse, auto repair center, self-storage
- Up to 4 lines / ports shared by 36 users

DuraFon 1X: 4 Bases & 36 Handsets



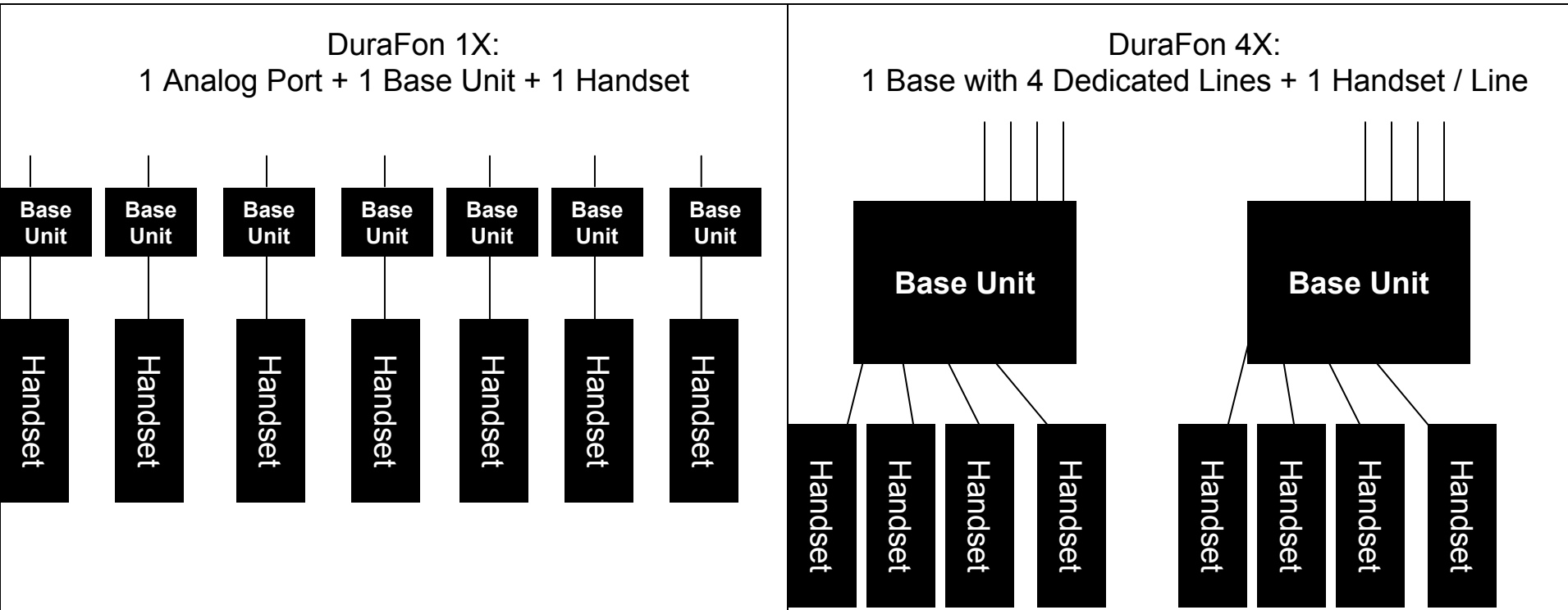
DuraFon 4X: 1 Base & 36 Handsets



# Expandability

## Executive Configuration

- For executives who do need a dedicated extension
- Examples: Principals, sales people, IT staff, managers
- Install in 1:1 ratio behind a PBX for unlimited users
- Maintain 20' between bases or antennas to avoid interference



# Handset Registration

(New or re-registering a handset)

- Power on the base unit
- Power on the handset
- On the base, hold down the “REG” button until Registration Mode is entered
- Line or status LEDs will indicate registration mode has been entered
- On the handset, press “MENU”, “6”, “1”
- Handset will indicate “Registration Complete”
- A handset ID number will be assigned and will appear on the top line of the handset



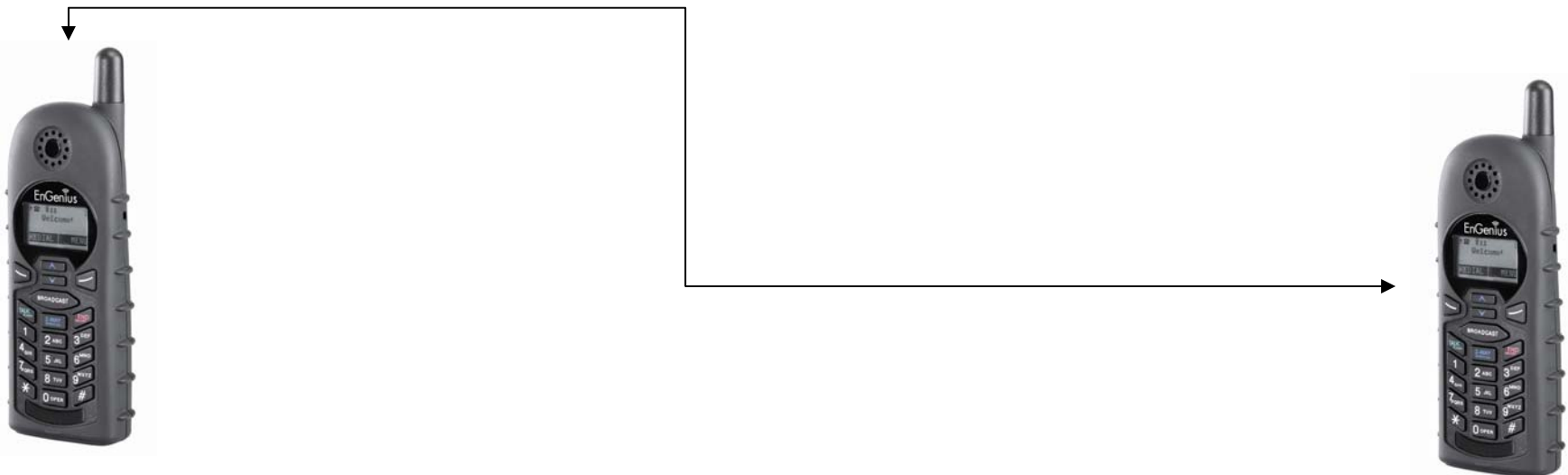
# Re-setting a base

- Power on the base unit
- Use a pen to depress the RESET button
- Line or status LEDs will flash to indicate reset is complete
- All handsets will have to be re-registered to the base after reset



# Two-Way Intercom

- Each handset that shares a base unit automatically has the ability to call another handset via the two-way radio intercom function
- On the handset, press the “2-Way Intercom” button and enter the two-digit handset ID to be called
- A full-duplex, private, handset-to-handset intercom call will be established when the called handset answers
- Press “END” to end the intercom call



# Broadcast

- Each DuraFon handset that shares a base unit automatically has the ability to BROADCAST a message to all other handsets, a group of handsets or a single handset
- On the handset, press the “BROADCAST” button to broadcast a half-duplex message to all handsets
- On the handset, enter the two-digit handset ID or group ID then press the “BROADCAST” button to broadcast a half-duplex message to a single handset or a group of handsets
- Press “END” to end the broadcast call (DuraFon1X)



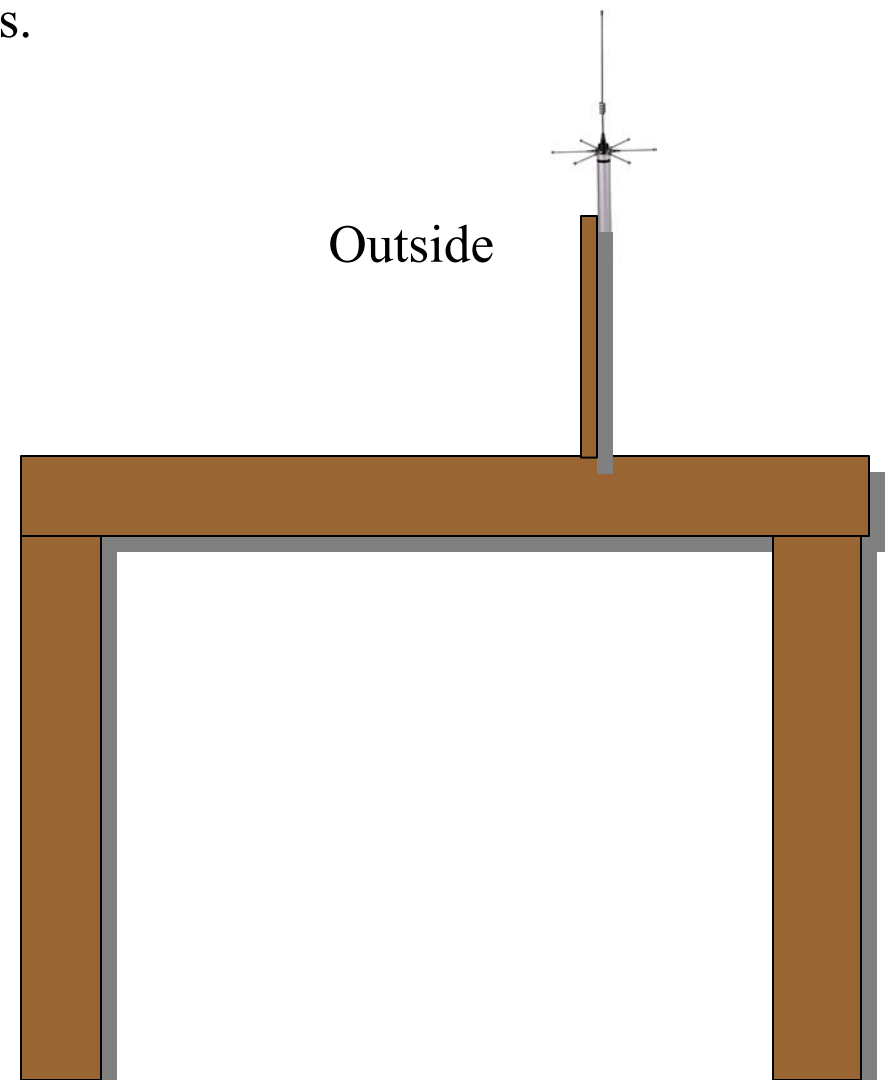
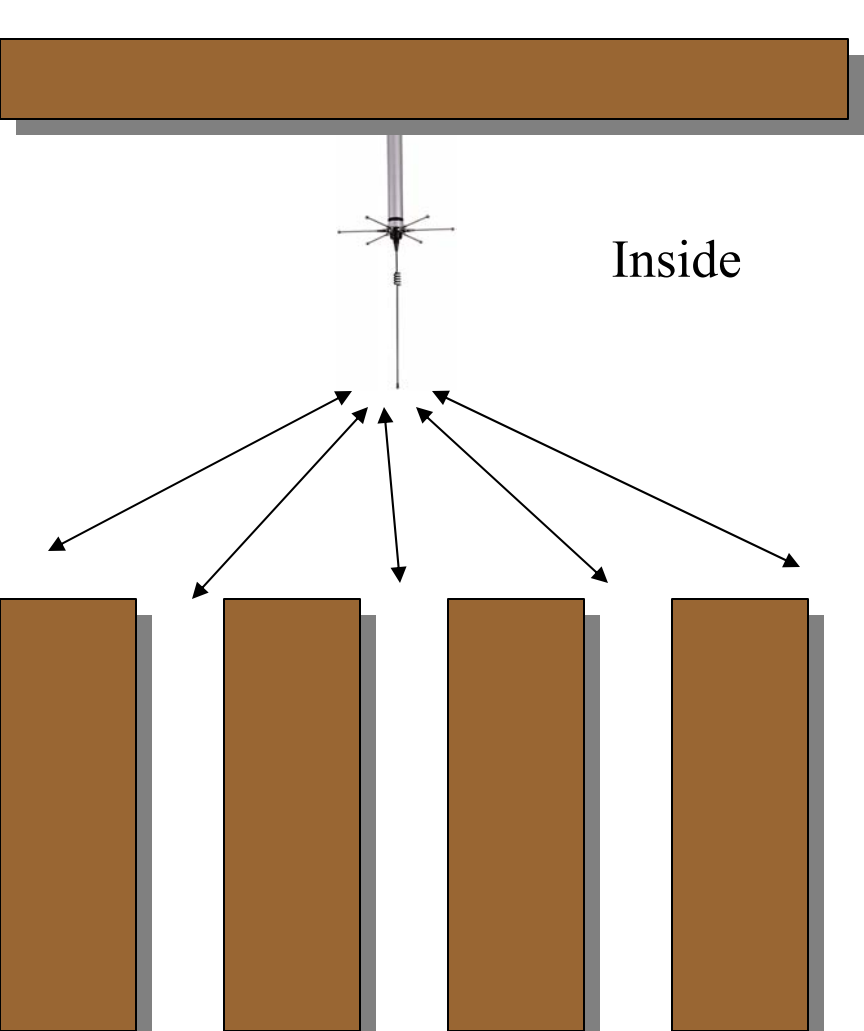
# Installation Hints

- If utilizing the base unit's rubber duc antenna, the base unit should be mounted high and above obstacles on a wall or in the false ceiling. This will provide the best coverage.
- If wall mounted, the base unit's rubber duc antenna may need to be tilted away from the wall by about 45 degrees.
- Plug in the telephone line into the RJ11 port labeled "LINE"
- Plug in the AC transformers connector into the "DC IN" port



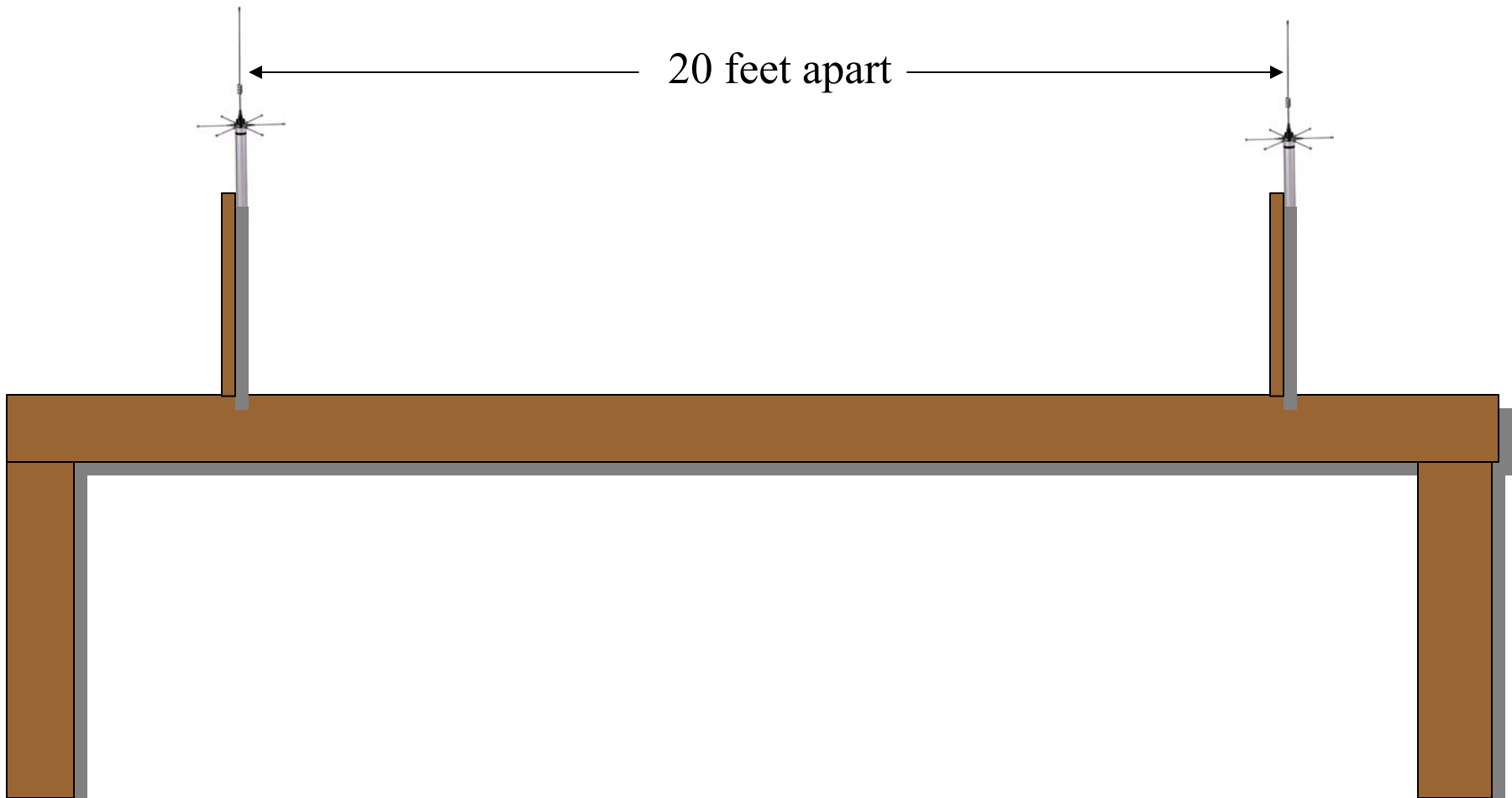
# Set-up Hints

- For optimum range, use external antenna upside-down from rafters in warehouses and manufacturing plants, or mounted to roof on farms, golf courses, self-storage, and schools. Use lightning protection kit outdoors.



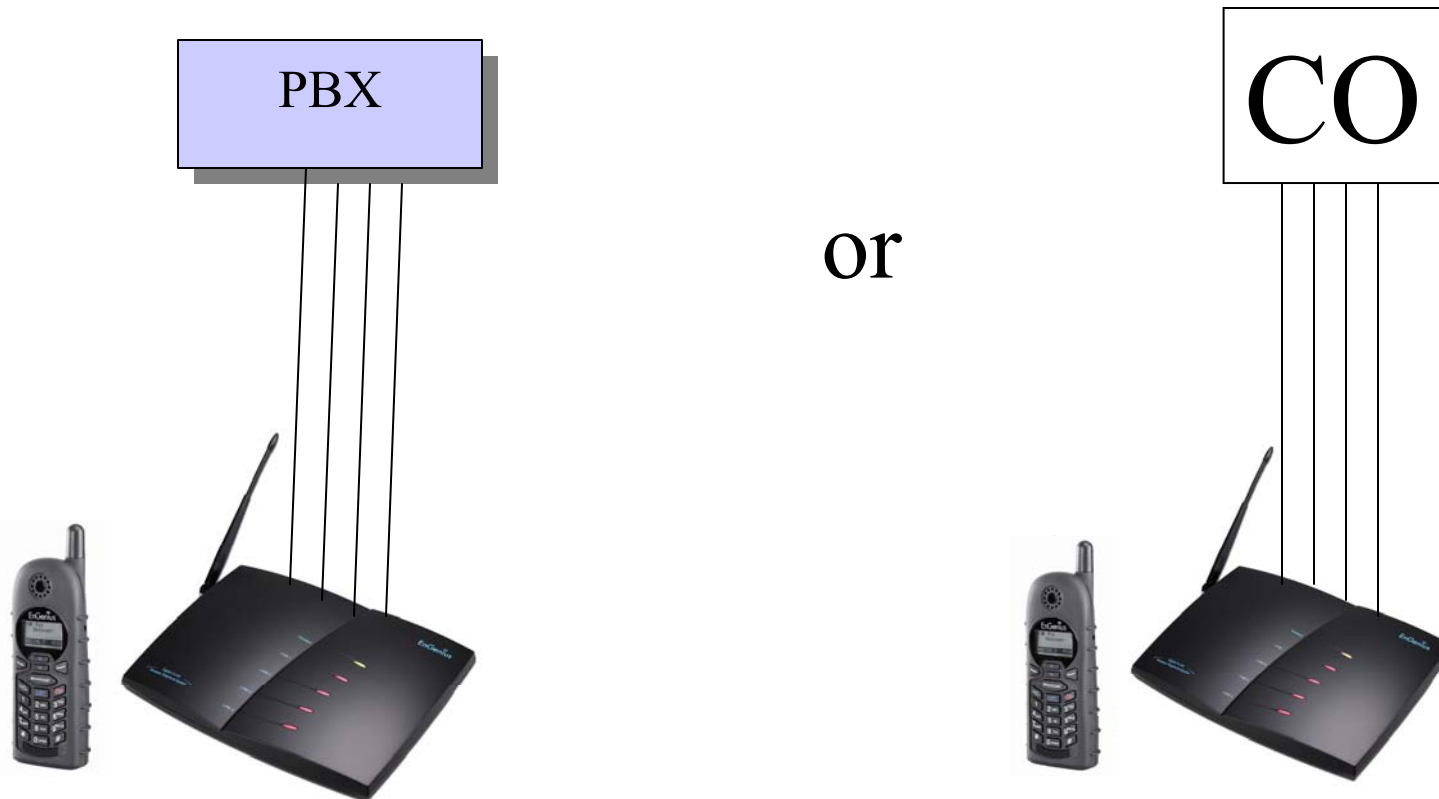
# Set-up Hints

- To avoid interference, mount terminal antenna (base or external antenna) at least **20'** apart. Each base unit may require an antenna. Many sites should use the 4-port system to cut number of terminal antennas.



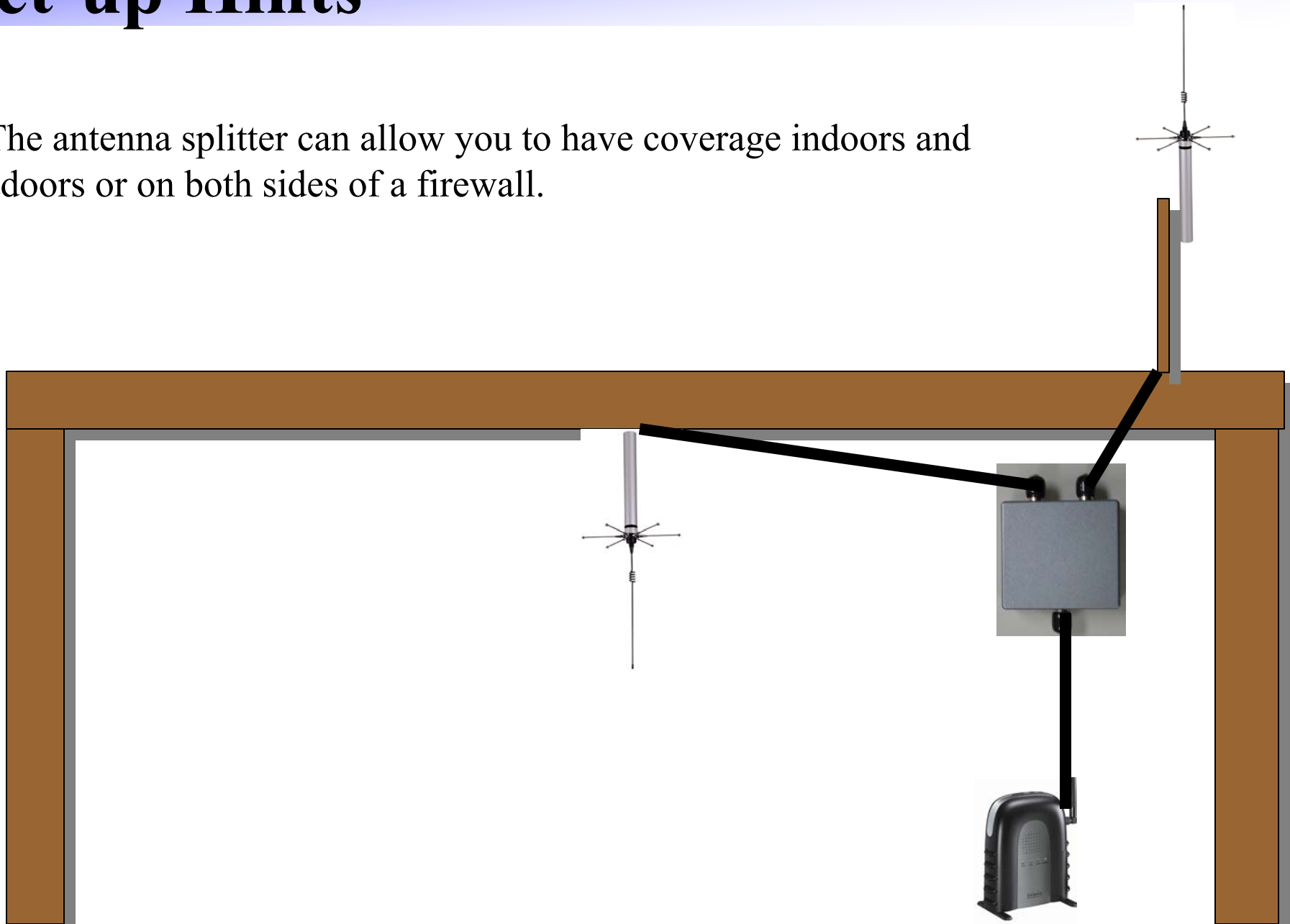
# Set-up Hints

- The system is engineered for use on standard analog CO lines, but works behind analog ports of most PBX systems or using a digital adapter on select PBX to share digital ports. Approximately 80% of installations are behind PBX or Key systems.



# Set-up Hints

- The antenna splitter can allow you to have coverage indoors and outdoors or on both sides of a firewall.



# Administrator

- Certain handsets are administrator handsets and have access to admin functions
- You can also use the ADMIN -> SYSTEM menu to determine the new handset ID of the next registered handset or remove a lost or broken handset from registration
- On the DuraFon 1X the administrator handsets are 11 & 12
- On the DuraFon 4X the administrator handsets are 10 & 11

# Common Set-up

**DuraFon 4X only**

## Line Dedication

On the administrator handset, press the MENU soft key

Press “9” for ADMIN menu

Press “1” for AUTO ATTENDANT

Press “4” for AA ON/OFF

Scroll to select the Line that you want to dedicate (1-4)

Select “OFF” for the AA

Select “YES” to dedicate line

Enter the handset ID or group number that you want to dedicate the line

# Common Set-up

**DuraFon 4X only**

## Auto Attendant (AA)

On the administrator handset, press the MENU soft key

Press “9” for ADMIN

From this menu you can record your Outgoing Greeting Message, set the number of rings and turn AA on or off by line

The AA is designed for use in applications that do not have a PBX. For applications behind the PBX, turn the AA off on all lines (default setting)

# Common Set-up

## Joining a Group

On an individual handset, press the MENU soft key

Press “5” for SETTINGS

Press “2” for GROUP SELECT

Press ADD and enter the group number that you wish to join (i.e. 1 for sales, 2 for customer service)

A handset can join up to 7 groups

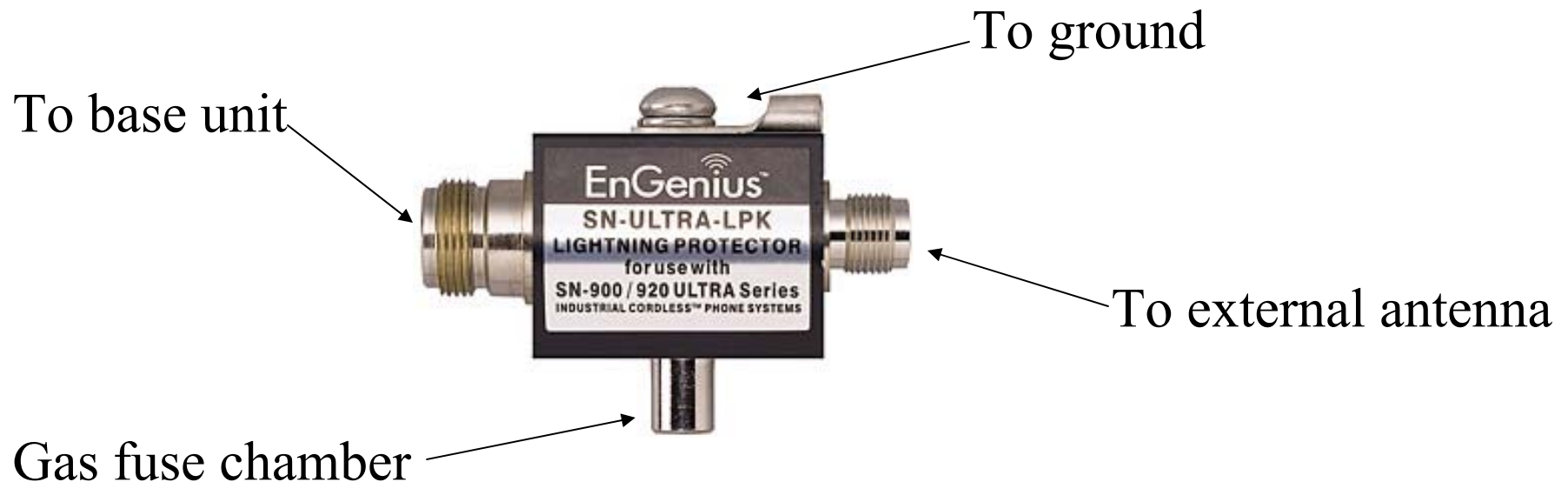
# External Antenna

- The connectors on the base unit, external antenna, lightning protection kit and antenna splitter are **reverse-thread** (left handed)
- Install the external antenna 10 feet from obstacles either on a roof or from the rafters of a warehouse
- Maintain 20 feet between external antennas (or base units if no antenna is used) to avoid interference. In applications with many users requiring many bases, use the DuraFon 4X
- Excess coaxial cable should uncoiled and placed in large 6 to 8 foot loops to avoid creating a disruptive electromagnetic field.
- If mounted outdoors a rain water loop should be made in the coax to prevent water from following the cable to the base unit



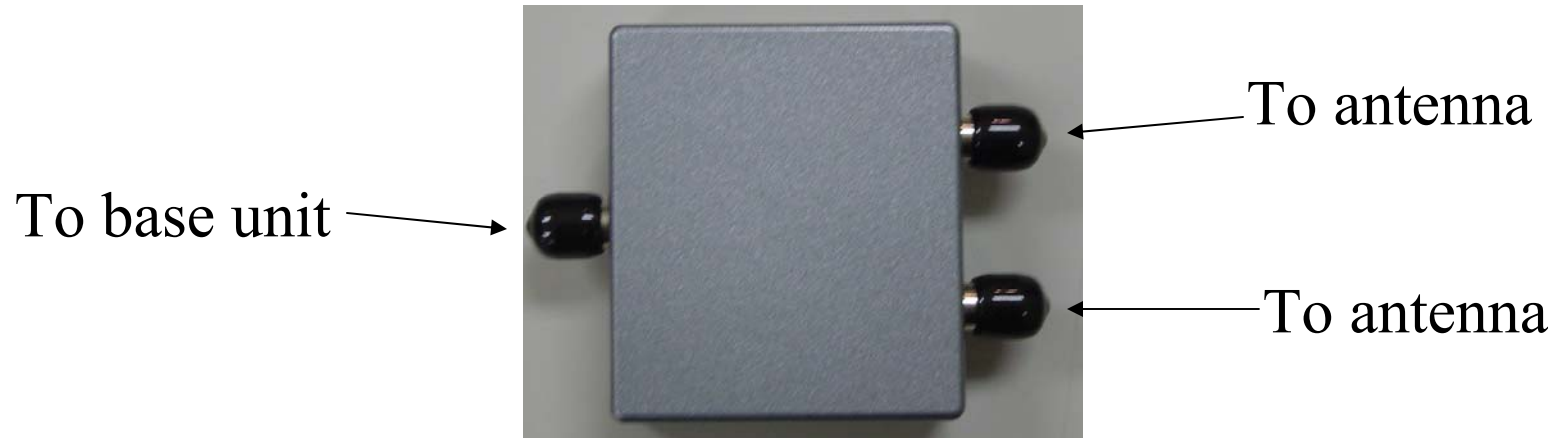
## Lightning Protection Kit (LPK)

- Use the lightning protection kit to redirect static discharges to ground
- Includes 15 feet (5 meters) of coaxial cable
- Replace the gas fuse in the LPK every year



# Antenna Splitter

- Splits base signal equally to two different antennas
- Reverse thread TNC connectors
- 3 feet (1 meter) of low-loss cable



## **Wireless Handset Call Box (CBX)**

- Mountable outdoors
- Integrates with EnGenius Industrial Cordless Phone Systems
- Full-duplex communication
- One- button activation



## Accessories



Spare Battery



DuraPouch



Belt Clip



External  
Antenna



Lightning  
Protection



Antenna  
Splitter

**Thank you**

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