

# DuraFon™ 1X —

## Long Range, Industrial Cordless Phone Systems™



### DuraFon 1X Feature Set

#### LONG-RANGE

Up to:

- 12 floors in building
- 250,000 sq. ft. in a warehouse
- 3,000 acres on a farm or ranch

#### DURABLE

- Tested to withstand 6 foot drops, 54 times on to concrete floors

#### EXPANDABLE

- 1 – 4 ports / lines
- 1 – 9 handsets per base
- Up to 4 base units

#### HANDSET—1X

- Telephone
- 2-way radio
- User handset naming
- Keypad lock
- Speakerphone
- Caller ID
- Call waiting
- Vibrate mode
- Line Select/Base Select

- 2.5mm headset jack
- Call Logs – Dialed and Received
- Redial
- Speed dial
- Call hold
- Call transfer
- Wireless PBX function sharing
- Wireless phonebook sharing
- Silent ring
- Mute
- 900 Mhz, DSS, Frequency Hopping
- Selectable handset grouping (7 groups)
- User programmable PBX functions (9)
- Phonebook 30 entry
- Intercom (handset-to-handset), no group chatter
- Broadcast (Push-to-Talk)

#### OPTIONAL EQUIPMENT

- External base antennas: 30' or 60' low-loss LMR-400L cable
- Lightning protection kit
- Antenna splitter
- DuraPouch

#### BATTERY & CHARGER

- Li-Ion technology
- 6 hrs talk-time
- 50 hrs stand-by time
- Handset & spare battery charging slots
- 4 hr recharge time
- Battery hot-swap while call onhold

#### SYSTEM

- 1 analog port per base unit
- Up to 4 base units (4 ports)
- Removable base antenna
- Flexible port dedication: Single, group or all
- Broadcast port
- Any analog line connection: Landline, ATA, cellular, VoIP or satellite
- Supports ring groups & hunt groups
- Conference calling
- Modifiable flash and DTMF tone timing
- Secure, digital spread spectrum w/ freq. hopping technology
- Single base support of 9 handsets

#### IMPORTANT INFO

- 1 year system and handset warranty, if sold by Authorized Reseller
- FCC certified
- Meets HIPPA compliancy
- No monthly bill (like cellular)
- No per minute charges (like cellular)
- No contracts (like cellular)
- No annual FCC license fees (like 2-way radios)
- No extensive infrastructure installation (like wireless networking, wifi phones)
- No QoS concerns
- No wireless network interference
- Secure

#### MANUFACTURER'S PART NUMBER

DuraFon 1X  
DuraFon 1X-HC



**DuraFon™**  
EnGenius®

## DuraFon™ 1X – Technical Specifications

Electrical Specs	Base Unit	Portable Handset
Frequency	902 - 928 MHz	902 - 928 MHz
RF Power	Peak: 708 mW Average: 76 mW	Peak: 708 mW Average: 76 mW
Channel Spacing	200 kHz	200 kHz
Number of Channels	128	128
Modulation	MSK	MSK
Multiple Access	Freq. Hopping TDMA	Freq. Hopping TDMA
Freq. Hopping Rate	100 per second	100 per second
TDMA Frame Length	10 ms	10 ms
Number of Slots / Frames	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 Standard Rubber Duc Antenna 3 dBi External Antenna Option	2 dBi Tall Handset Antenna 0.5 dBi Low Profile Antenna
TX Power Control Range	N/A	100- 708 mW
Telephone Interface	RJ11 x 2	N/A
Speech Coding	8 kbps G.729A	8 kbps G.729A
Channel Coding	8 kbps Convolutional + CRC	8 kbps Convolutional + CRC
Transmission Data Rate	170.678 kbps	176.678 kbps
User Data Rate	128 kbps duplex	128 kbps duplex
Duplex	Time Division Duplex (TDD)	Time Division Duplex (TDD)
Voice Quality	TIA / EIA -470B	TIA / EIA -470B
Number of System ID	65,536	65,536
Ring Signal	20-50 Hz, 12-90 Vrms	N/A
Flash Time	100 - 900 ms Programmable	N/A
Power Source	120V/12V AC/ DC Adapter	3.6V, 1700 mAh Li-Ion Battery
Charger Current	N/A	600 mA
Charge Time	N/A	4 Hours (from empty)
Regulation Compliance	FCC Part 15, Part 68 CAN/DOC RSS210, CS03	FCC Part 15, Part 68 CAN/DOC RSS210, CS03 Hearing Aid Compatible
Operating Temperature	-10 - 60° C (14 - 140° F)	-10 - 60° C (14 - 140° F)
Storage Temperature	-10 - 70° C (14 - 158° F)	-10 - 70° C (14 - 158° F)
Humidity	20 - 75%	20 - 75%
Dimension without Antenna	188 x 161 x 42 mm 7.4" x 6.3" x 1.7"	58 x 31 x 161 mm 2.3" x 1.2" x 6.3"
Weight	15 Ounces (424g)	6.17 Ounces (175g)

## Applications in Depth

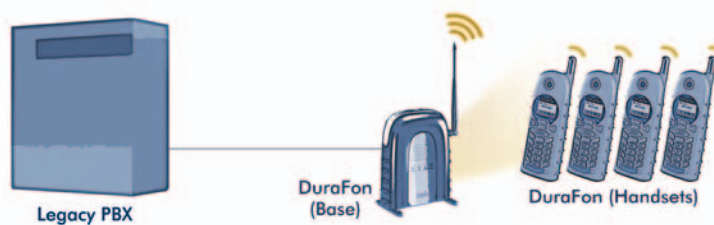
**Self Storage:** The DuraFon 1X allows a facility manager to tour and maintain the grounds while manning the main office at the same time. This helps them to provide superior customer service and ensure the property runs at peak efficiency.

**Hotel/Motel:** 1X Systems allow hospitality staff to have immediate access to one another from anywhere within the hotel/motel property resulting in improved guest satisfaction and business efficiency.

**Ranches and Farms:** DuraFon 1X offers superior coverage for most every user that requires mobility within a large outdoor environment. Cut costs from Cell Phone usage and/or 2-way radio with the 1X you can cover up to 3000 acres of outdoor property.

**Estate Homes:** Traditional cordless telephones can't offer the coverage that the 1X will provide. Offering complete coverage both indoor and outdoor and throughout the neighborhood.

Specifications may change without notice.



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