

DuraFon™ 4X —

Long Range, Industrial Cordless Phone Systems™



DuraFon 4X 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

HANDSET – 4X

- Telephone
- 2-way radio
- User handset naming
- Keypad lock
- Caller ID
- Call waiting
- Vibrate mode
- Line Select
- 2.5mm headset jack
- Call Logs – Dialed and Received
- Redial
- Speed dial

- Call hold
- Call transfer
- Silent ring
- Mute
- 900 Mhz, DSS, Frequency Hopping
- Selectable handset grouping (7 groups)
- User programmable PBX functions
- 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
- DuraWalkie (2-way radio only) handsets

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

- 4 analog ports
- Removable base antenna
- Flexible port dedication: Single, group or all
- Any analog line connection: Landline, ATA, cellular, VoIP or satellite
- Supports ring groups & hunt groups
- Auto attendant
- Conference calling
- Modifiable flash and DTMF tone timing
- Secure, digital spread spectrum w/ freq. hopping technology
- Supports up to 36 4X-HC (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 4X
DuraFon 4X-HC



DuraFon™
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DuraFon™ 4X – Technical Specifications

Electrical Specs	Base Unit	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	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	8	8
Number of Users / Carrier	4	4
Receiver Sensitivity	< -108 dBm (@ BER 10 ⁻²)	< -108 dBm (@ BER 10 ⁻²)
Antenna Connector	Reverse TNC	Non-standard
Antenna Gain	2 dBi Standard Rubber Duc Antenna 3 dBi External Antenna Option	2 dBi Tall Hantset Antenna 0.5 dBi Low Profile Anntenna
TX Power Control Range	N/A	100- 708 mW
Telephone Interface	RJ11 x 4	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
Auto-Attendant Coding	8 kbps G.729	8 kbps G.729
Flash Time	100 - 900 ms Programmable	N/A
Power Source	120V/7V AC/ DC Adapter	3.6V, 1700 mAh Li-Ion Battery
Charger Current	N/A	500 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	215D x 53H x 280W mm 11.0" x 2.1" x 8.5"	58D x 31H x 161W mm 2.3" x 1.2" x 6.3"
Weight	32 Ounces (907g)	6.17 Ounces (175g)

Specifications may change without notice.



Applications in Depth

School/Education: The 4X allows mobility without extra phone numbers, cellular airtime or spotty indoor coverage associated with mobile service. The principal can stay in constant communication with administrators, teachers, counselors, security, and support staff.

Professional/Brokerage Firms: Tenants of Hi-rise facilities can feel free to roam away from their office through multiple floors and never miss that important customer call. Deals can be closed on the 1st or 12th floor.

IT/Security Staff: Resolve issues quickly and discretely the 4X system offers the ability to react quickly via Push-2-Talk with other staff or immediately call 911 when the situation needs to be escalated.

Distribution Centers: Tough environments require products that are durable. The DuraFon 4X offers that required durability and the range required for the size of large distribution centers without the cost of WiFi solutions or cellular charges.

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