**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)

**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 basic 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

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**ETI — Brands that communicate™**

www.engeniustech.com
## DuraFon® 1X – Technical Specifications

<table>
<thead>
<tr>
<th>Spec</th>
<th>Base Unit</th>
<th>Portable Handset</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>902 - 928 MHz</td>
<td>902 - 928 MHz</td>
</tr>
<tr>
<td><strong>RF Power</strong></td>
<td>Peak: 708 mW Average: 76 mW</td>
<td>Peak: 708 mW Average: 76 mW</td>
</tr>
<tr>
<td><strong>Channel Spacing</strong></td>
<td>200 kHz</td>
<td>200 kHz</td>
</tr>
<tr>
<td><strong>Number of Channels</strong></td>
<td>128</td>
<td>128</td>
</tr>
<tr>
<td><strong>Modulation</strong></td>
<td>MSK</td>
<td>MSK</td>
</tr>
<tr>
<td><strong>Multiple Access</strong></td>
<td>Freq. Hopping TDMA</td>
<td>Freq. Hopping TDMA</td>
</tr>
<tr>
<td><strong>Freq. Hopping Rate</strong></td>
<td>100 per second</td>
<td>100 per second</td>
</tr>
<tr>
<td><strong>TDMA Frame Length</strong></td>
<td>10 ms</td>
<td>10 ms</td>
</tr>
<tr>
<td><strong>Number of Slots / Frames</strong></td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Receiver Sensitivity</strong></td>
<td>&lt; -108 dBm (@ BER 10^-3)</td>
<td>&lt; -108 dBm (@ BER 10^-3)</td>
</tr>
<tr>
<td><strong>Antenna Connector</strong></td>
<td>Reverse TNC</td>
<td>Non-standard</td>
</tr>
<tr>
<td><strong>Antenna Gain</strong></td>
<td>2 dBi Standard Rubber Duck Antenna</td>
<td>2 dBi Tall Handset Antenna</td>
</tr>
<tr>
<td><strong>TX Power Control Range</strong></td>
<td>RJ11 x 2</td>
<td>100 - 708 mW</td>
</tr>
<tr>
<td><strong>Telephone Interface</strong></td>
<td>RJ11 x 2</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Speech Coding</strong></td>
<td>8 kbps G.729A</td>
<td>8 kbps G.729A</td>
</tr>
<tr>
<td><strong>Channel Coding</strong></td>
<td>8 kbps Convolutional + CRC</td>
<td>8 kbps Convolutional + CRC</td>
</tr>
<tr>
<td><strong>Transmission Data Rate</strong></td>
<td>170.678 kbps</td>
<td>176.678 kbps</td>
</tr>
<tr>
<td><strong>User Data Rate</strong></td>
<td>128 kbps duplex</td>
<td>128 kbps duplex</td>
</tr>
<tr>
<td><strong>Duplex</strong></td>
<td>Time Division Duplex (TDD)</td>
<td>Time Division Duplex (TDD)</td>
</tr>
<tr>
<td><strong>Voice Quality</strong></td>
<td>TIA / EIA -4708</td>
<td>TIA / EIA -4708</td>
</tr>
<tr>
<td><strong>Number of System ID</strong></td>
<td>65,536</td>
<td>65,536</td>
</tr>
<tr>
<td><strong>Ring Signal</strong></td>
<td>20-50 Hz, 12-90 Vrms</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Flash Time</strong></td>
<td>100 - 900 ms Programmable</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>120V/12V AC/ DC Adapter</td>
<td>3.6V, 1700 mAh Li-Ion Battery</td>
</tr>
<tr>
<td><strong>Charger Current</strong></td>
<td>N/A</td>
<td>600 mA</td>
</tr>
<tr>
<td><strong>Charge Time</strong></td>
<td>N/A</td>
<td>4 Hours (from empty)</td>
</tr>
<tr>
<td><strong>Regulation/Compliance</strong></td>
<td>FCC Part 15, Part 68 CAN/DOC RSS210, CS03</td>
<td>FCC Part 15, Part 68 CAN/DOC RSS210, CS03</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 - 60°C (14 - 140°F)</td>
<td>-10 - 60°C (14 - 140°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-10 - 70°C (14 - 158°F)</td>
<td>-10 - 70°C (14 - 158°F)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>20 - 75%</td>
<td>20 - 75%</td>
</tr>
<tr>
<td><strong>Dimension without Antenna</strong></td>
<td>188 x 161 x 42 mm</td>
<td>58 x 31 x 161 mm</td>
</tr>
<tr>
<td></td>
<td>7.4&quot; x 6.3&quot; x 1.7&quot;</td>
<td>2.3&quot; x 1.2&quot; x 6.3&quot;</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>15 Ounces (424g)</td>
<td>6.17 Ounces (175g)</td>
</tr>
</tbody>
</table>

Specifications may change without notice.

## 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 an 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.