



# FreeStyl™

## Extreme Range Scalable Cordless Phone Systems

EnGenius FreeStyl Systems are scalable 900 MHz cordless phone systems designed to provide users with unparalleled wireless coverage over long distances and in complex, multi-floor environments. They combine a sleek design, robust and powerful technology, and an array of key features that make them perfect for use in offices and large home estates.

FreeStyl phones are ideal for businesses with employees who roam beyond the confines of their offices or cubicles. They are especially useful for expansive properties (farms, ranches, hotels, luxury estates) where owners or staff need to stay connected over extended distances.

FreeStyl is the perfect choice for users who do not require the durability of the DuraFon, and prefer a handset with a little more style.

### Users may include:

- Large Home Estates
- Farms and Ranches
- Hotels / Motels

### Key Features:

- Scalable: Supports up to 9 Handsets (Sold Separately; Add Anytime)
- High Power/Sensitivity for Extreme Wireless Range and Connectivity
- Outperforms: 1.9 (DECT), 2.4 & 5 GHz Solutions
- 2-Way Intercom
- Speakerphone
- Simultaneous Broadcast to Multiple Handsets from Any Handset
- Limited 1-year Warranty on Base and Handset
- Limited 90-day Warranty on Accessories



## Extreme Range Coverage

Up to 100,000 sq. ft. of facility coverage; up to 6 floors in-building penetration, or 10 acres in open areas

## Outperforms: 1.9 (DECT), 2.4 & 5 GHz Solutions

High power/high sensitivity coverage penetrates concrete, wood and drywall

## Scalable System

Single-line one-line system is expandable to 9 total handsets

## Versatile

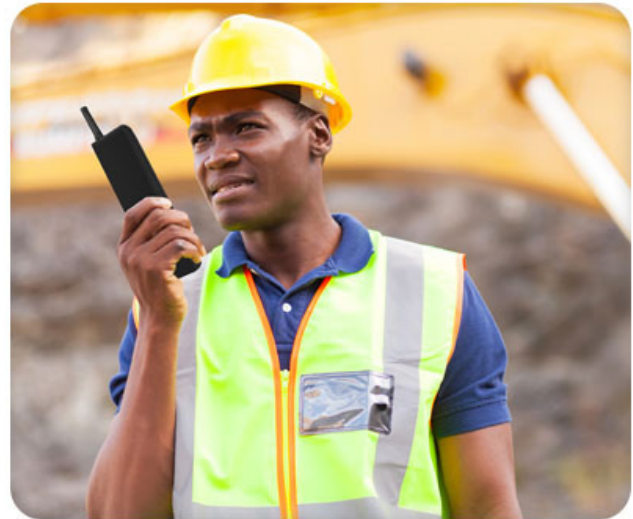
FreeStyl phones incorporate speakerphone capability and 2-way radio/wireless intercom. The intercom is private and secure, and works as a two-way radio from handset-to-handset.

## Business-Friendly Features

Simultaneous broadcast to multiple handsets from any FreeStyl handset

Plug directly into a phone jack on the wall or the analog port of a PBX

Option to operate as a standalone system or as a long-range cordless analog extension to a PBX phone system



## No Recurring Costs

No subscriber contracts (unlike cellular or 2-way radio licensing)

No monthly service charges or fees (unlike cellular and phone companies)

## FreeStyl System Features

### Long-Range

6 Floors In-Building Penetration  
100,000 sq. ft. of Facility Coverage  
10 Acres of Property, Open Land Coverage

### Handset Features

Telephone  
2-Way Radio  
900 MHz DSS, Frequency Hopping  
Broadcast/Push-to-Talk  
Call Hold  
Call Logs: Dialed & Received  
Call Transfer  
Call Waiting  
Caller ID  
Headset Jack (2.5mm)  
Intercom (Handset-to-Handset, No Group Chatter)  
Keypad Lock  
Message Waiting Indicator (FreeStyl1)  
Mute  
Phone Book/Speed Dial: 50 Entries  
Redial

### Handset Features continued

Selectable Handset Grouping (7 Groups)  
Silent Ring  
Speakerphone  
User Handset Naming  
User-Programmable PBX Functions (9 per Handset)  
Vibrate Mode

### Ports

PBX Compatible  
PTSN (RJ11) Ports: 2 (1 telephone, 1 line)

### Call Features

Ring Group/Hunt Group Support  
Conference Calling  
Modifiable Flash and DTMF Timing  
Base Station Speakerphone (FreeStyl1)  
Base Station Dialing/Speed Dial (FreeStyl1)  
Base Station Intercom/Broadcast to Handset (FreeStyl1)

### Configuration

# Talk Paths: 1  
# Supported Handsets per Base: 9  
# Total Handsets Supported: 9  
# Concurrent Calls per Handset: 1  
# Simultaneous Calls per Base Unit: 1

### Battery and Charger

Li-Ion technology  
Hours of Talk Time, 4 hrs.  
Hours of Stand-By Time, 50 hrs.  
Hours Recharge Time 3

### Optional Equipment

Spare Battery  
FreeStyl 1: Freestyl1-BA  
FreeStyl 2: Freestyl2-BA  
Base Antenna Kit:  
Outdoor: SN-UL-AK20L  
Indoor: SN-UL-AK20L-IND  
Lightning Protection Kit:  
SN-ULTRA-LPK  
Antenna Splitter Kit:  
SN-ULTRA-AS

## Technical Specifications

Physical Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
<b>Buttons</b>	Reset	Left & Right soft keys	Page (handset locator)/ Registration	Left & Right soft keys
	Registration	Broadcast	Reset	Broadcast
	Transfer	Up/Down		Up/Down
	Memory	Caller ID/Hold		Caller ID/Hold
	Hold	Talk/Flash		Talk/Flash
	Flash	End/Power		End/Power
	Redial	0 – 9, #		0 – 9, #
	Broadcast	Speakerphone		Speakerphone
	Power	Intercom		Intercom
	In Use			
	Volume Up/Down			
Intercom/Broadcast				
<b>Jack(s)</b>	DC	Headset (2.5 mm)	DC	Headset (2.5 mm)
	Phone	DC in (on charger)	Phone	DC in (on charger)
	Line		Line	
<b>LED Indicators</b>	Broadcast, Power, In-use, Mute, VM Indicator	N/A	Power (blue)	N/A
			In-use (white)	
Electrical Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
<b>Frequency</b>	Intercom	902-928 MHz	902-928 MHz	902-928 MHz
<b>RF Power</b>	Peak - 27 dBm ; Average - 21 dBm	Peak - 26 dBm ; Average - 20 dBm	Peak - 27 dBm ; Average - 21 dBm	Peak - 26 dBm ; Average - 20 dBm
<b>Channel Spacing</b>	101 kHz	101 kHz	101 kHz	101 kHz
<b>Number of Channels</b>	252	252	252	252
<b>Modulation</b>	Differentially Encoded MSK	Differentially Encoded MSK	Differentially Encoded MSK	Differentially Encoded MSK
<b>Multiple Access</b>	Frequency Hopping TDD	Frequency Hopping TDD	Frequency Hopping TDD	Frequency Hopping TDD
<b>Frequency Hopping Rate</b>	100 per second	100 per second	100 per second	100 per second
<b>TDMA Frame Length</b>	10 ms	10 ms	10 ms	10 ms
<b>Number of Talk Paths</b>	1	1	1	1
<b>Receiver Sensitivity</b>	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)
<b>Antenna Connector</b>	Reverse Thread TNC	Proprietary	Reverse Thread TNC	Proprietary
<b>Antenna Gain</b>	2 dBi	1.5 dBi (short antenna);	2 dBi	1.5 dBi (short antenna);
<b>TX Power Control Range</b>	400 mW	100 – 400 mW	400 mW	100 – 400 mW
<b>Telephone Interface</b>	RJ11 x2	N/A	RJ11 x2	N/A
<b>Speech Coding</b>	8 kbps G.729A	8 kbps G.729A	8 kbps G.729A	8 kbps G.729A
<b>Channel Coding</b>	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC
<b>Transmission Data Rate</b>	85.333 kbps	85.333 kbps	85.333 kbps	85.333 kbps
<b>User Data Rate</b>	64 kbps duplex	64 kbps duplex	64 kbps duplex	64 kbps duplex

## Technical Specifications continued

Electrical Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
Duplex	Time Division Duplex (TDD)	Time Division Duplex (TDD)	Time Division Duplex (TDD)	Time Division Duplex (TDD)
Voice Quality	TIA/EIA-470B	TIA/EIA-470B	TIA/EIA-470B	TIA/EIA-470B
Number of System ID	65,536	65,536	65,536	65,536
Ring Signal	20-50 Hz, 30-90 Vrms	N/A	20-50 Hz, 30-90 Vrms	N/A
Auto-Attendant Coding	N/A	N/A	N/A	N/A
Flash Time	100-900 ms programmable	N/A	100-900 ms programmable	N/A
Power Source	AC / DC 100-240V 12V/1A Adapter	1100mA / 3.7V Li-ion Battery Pack	AC / DC 100-240V 5V/1A Adapter	1100mA / 3.7V Li-ion Battery Pack
Charge Time	N/A	3 hours (from empty)	N/A	3 hours (from empty)
Charge Current	N/A	550 mA (850 mA for spare battery slot)	N/A	550/850 mA (charging cradle)
Battery Talk & Standby Time	N/A	~ 4 hours/50 hours	N/A	~ 4 hours/50 hours
Environmental Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
Regulatory Approval	USA: FCC Part 15, Part 168 Canada: IC	USA: FCC Part 15, Part 168 Canada: IC	USA: FCC Part 15, Part 168 Canada: IC	USA: FCC Part 15, Part 168 Canada: IC
Operating Temperature	32°F – 122°F (0°C – 50°C)	14°F – 140°F (-10°C – 60°C)	32°F – 122°F (0°C – 50°C)	14°F – 140°F (-10°C – 60°C)
Storage Temperature	-40°F – 158°F (-40°C – 70°C)	-40°F – 158°F (-40°C – 70°C)	-40°F – 158°F (-40°C – 70°C)	-40°F – 158°F (-40°C – 70°C)
Humidity	20 – 75 %	20 – 75 %	20 – 75 %	20 – 75 %
IP Rating	N/A	N/A	N/A	N/A
Dimensions	7.1" x 6.3" x 3.5" (188 x 161 x 42 mm)	7.4 x 2.3 x 1.2" (161 x 58 x 31 mm)	5.48" x 5.05" x 1.35" (139 x 128 x 34 mm)	7.64" x 1.83" x 1.31" (194.05 x 46.59 x 33.35mm)
Device Weight	0.93 lbs (424 g)	0.39 lb (175 g)	0.6 lbs. (275g)	0.34 lbs. (156g) incl. battery

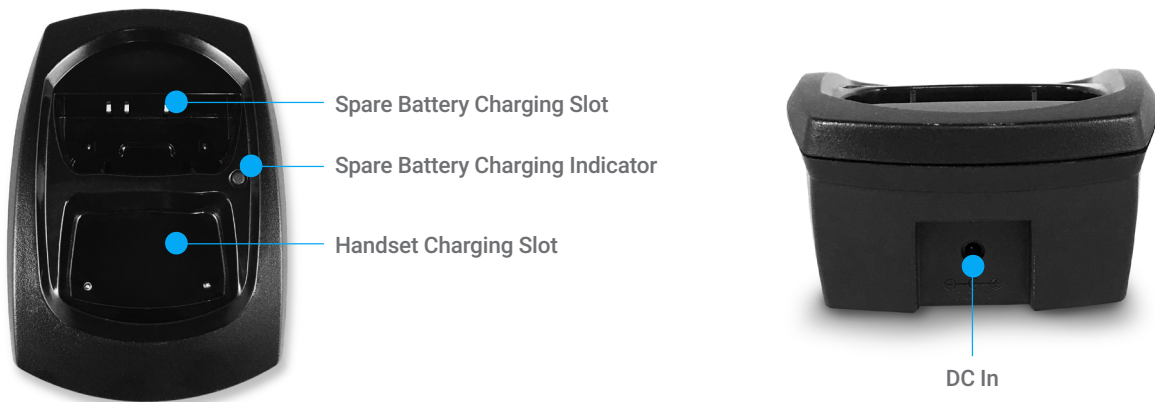
## Packaging

	FreeStyl 1	FreeStyl 1 Handset	FreeStyl 2	FreeStyl 2 Handset
Description	Extreme Range Scalable Cordless Phone System	FreeStyl 1 Expansion Handset	Extreme Range Scalable Cordless Phone System	FreeStyl 2 Expansion Handset
<b>Master Carton</b>				
Quantity	6	6	6	6
Weight	17.1 lbs.	9.2 lbs.	16.4 lbs.	9.3 lbs.
Dimensions (inches)	19" x 14" x 12"	18" x 13" x 10"	19" x 14" x 12"	18" x 13" x 10"
Dimensions (cm)	48.3 x 35.6 x 30.5 cm	45.7 x 33 x 25.4 cm	48.3 x 35.6 x 30.5 cm	45.7 x 33 x 25.4 cm
<b>Individual SKU Contents</b>				
1-Line Base Station	X (handset charger built-in)	N/A	X	N/A
Base AC Adapter	X	N/A	X	N/A
Base Antenna	X	N/A	X	N/A
Handset	X	X	X	X
Handset Antenna	X	X	X	X
Handset Battery Pack	X	X	X	X
Desktop Handset Charger	N/A	X	X	X
Desktop Charger AC Adapter	N/A	X	X	X
User's Manual	Online	Online	Online	Online
Handset Belt Clip	N/A	N/A	X	X

## FreeStyl1 Handset



## FreeStyl1 Handset Charger



# FreeStyl1 Base Station





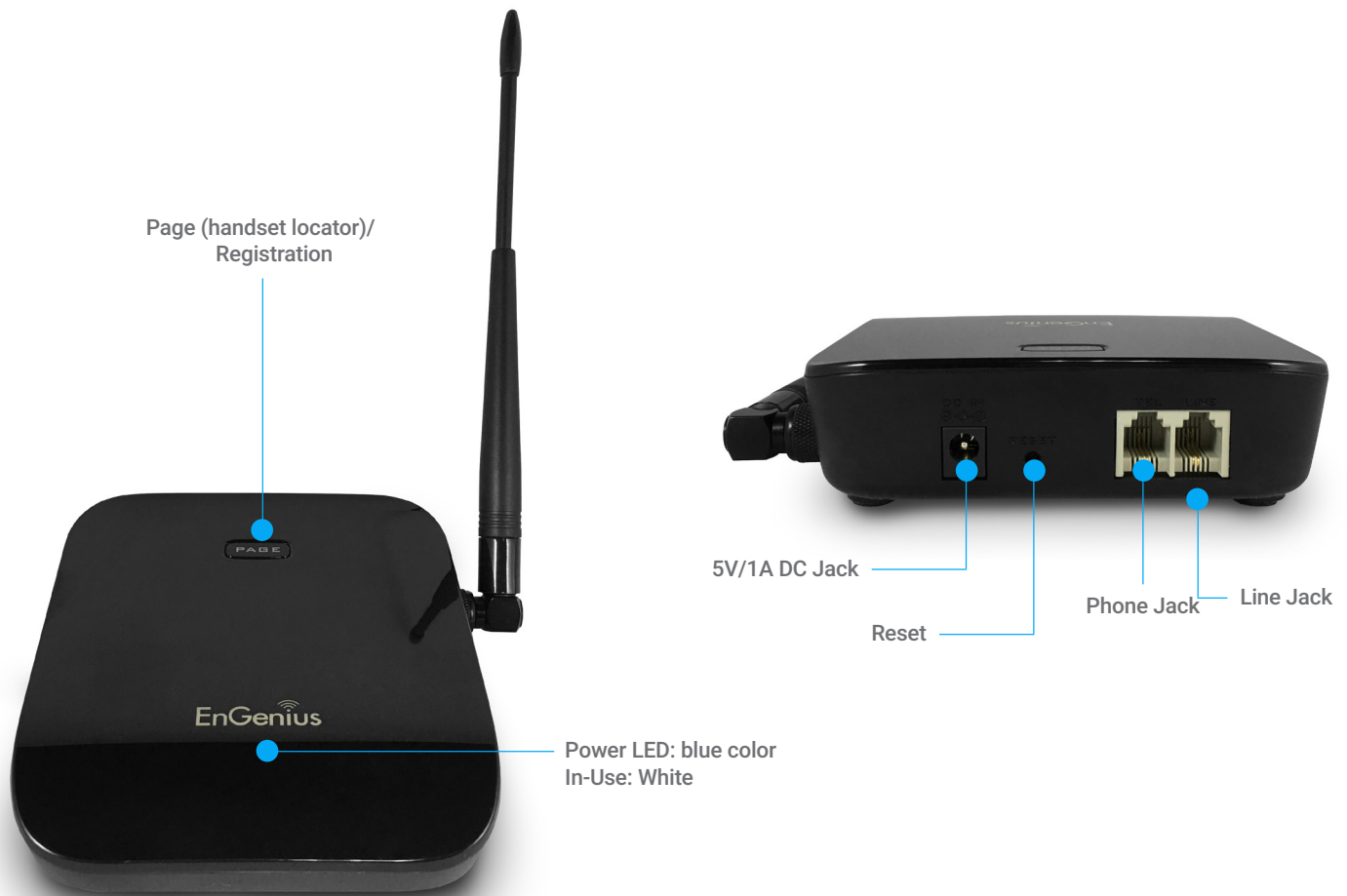
## FreeStyl2 Handset



## FreeStyl2 Handset Charger



## FreeStyl2 Base Station



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the user is encouraged to try to correct the interference, see User Manual for additional information. Base Station: This equipment complies with FCC radiation exposure limits and should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Handset: This equipment complies with FCC radiation exposure limits. End users must follow the specific operating instructions for satisfying RF exposure compliance, to do this, please follow operation instruction as documented in the User Manual. This device complies with RSS-210 of the Industry Canada Rules and with IC radiation exposure limits.

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