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, resorts, 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 rugged DuraFon, and prefer something with a little more style.

Users may include:

- Large Home Estates
- Farms and Ranches
- Home Associations
- Apartments
- Condos
- Resort or Vacation Homes

Key Features:

- Scalable: Supports up to 9 Handsets (Sold Separately; Add Anytime)
- High Power/Sensitivity for Extreme Wireless Range And Connectivity
- Outperforms 2.4 or 5.8ghz DECT Solutions
- 2-Way Intercom
- Speakerphone
- Simultaneous Broadcast to Multiple Handsets From Any Handset

Extreme Range Coverage

Up to 25,000 sq. ft. of facility coverage; up to 6 floors in-building penetration.

Outperforms 2.4 or 5.8GHz DECT solutions

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

Scalable System

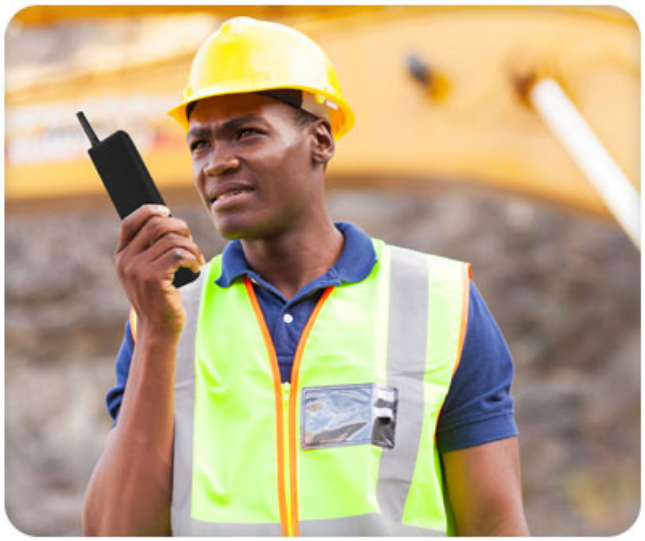
This one-line system is expandable to 9 total handsets.

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 handset-to-handset or handset-to-base.

Business-Friendly Features

- Simultaneous broadcast to multiple handsets from any 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.



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 handset-to-handset or handset-to-base.

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
25,000 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
Flexible Port Dedication: Single, Group, or All
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
Hours of Stand-By Time
Hours Recharge Time 3
Handset and Spare Battery Charging Slots
Battery hot-swap with call on hold

Optional Equipment
Spare Battery
Outdoor External Antenna Kit for Base Station (including antenna & cable)
Indoor External Antenna Kit for Base Station (including antenna & cable)
Lightning Protection Kit

FreeStyl System Features continued

Optional Equipment continued
High-gain handset antenna (Long antenna)
Headset
Antenna Splitter

Technical Specifications

Physical Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
Buttons	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			
Jack(s)	DC	Headset (2.5 mm)	DC	Headset (2.5 mm)
	Phone	DC in (on charger)	Phone	DC in (on charger)
	Line		Line	
LED Indicators			Power (blue)	N/A
			In-use (white)	

Electrical Specifications	FreeStyl 1 Base	FreeStyl 1 Handset	FreeStyl 2 Base	FreeStyl 2 Handset
Frequency	Intercom	902-928 MHz	902-928 MHz	902-928 MHz
RF Power	Peak - 27 dBm ; Average - 21 dBm	Peak - 26 dBm ; Average - 20 dBm	Peak - 27 dBm ; Average - 21 dBm	Peak - 26 dBm ; Average - 20 dBm
Channel Spacing	101 kHz	101 kHz	101 kHz	101 kHz
Number of Channels	252	252	252	252
Modulation	Differentially Encoded MSK	Differentially Encoded MSK	Differentially Encoded MSK	Differentially Encoded MSK
Multiple Access	Frequency Hopping TDD	Frequency Hopping TDD	Frequency Hopping TDD	Frequency Hopping TDD
Frequency Hopping Rate	100 per second	100 per second	100 per second	100 per second
TDMA Frame Length	10 ms	10 ms	10 ms	10 ms
Number of Talk Paths	1	1	1	1
Receiver Sensitivity	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)	< -111 dBm (@ BER 10-2)
Antenna Connector	Reverse TNC	Manual says Non-standard; web stats say Reverse TNC	Reverse TNC	Proprietary
Antenna Gain	Manual says 2 dBi; Web stats say 2.5	1.5 dBi (short antenna); 2.5 dBi (long antenna)	2 dBi	1.5 dBi (short antenna); 2.5 dBi (long antenna)
TX Power Control Range	400 mW	400 mW	400 mW	400 mW
Telephone Interface	RJ11 x2	N/A	RJ11 x2	N/A
Speech Coding	8 kbps G.729A	8 kbps G.729A	8 kbps G.729A	8 kbps G.729A
Channel Coding	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC	8 kbps Convolutional+CRC
Transmission Data Rate	85.333 kbps	85.333 kbps	85.333 kbps	85.333 kbps
User Data Rate	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 SW Adapter	1100mA Li-ion Battery; 3.7V/1700mAH optional	AC/DC 5V/1V Adapter	1100mA Li-ion Battery
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	~ 5.5 hours/60 hours	N/A	~ 5.5 hours/60 hours
Environmental Specifications	**FreeStyl 1 Base**	**FreeStyl 1 Handset**	**FreeStyl 2 Base**	**FreeStyl 2 Handset**
Flash Time	FCC Part 15, Part 68	FCC Part 15, Part 68; Hearing Aid Compatible	FCC Part 15, Part 68 Canada RSS-210, CS03	FCC Part 15, Part 68; CAN/DOC RSS210, CS03; Hearing Aid Compatible
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

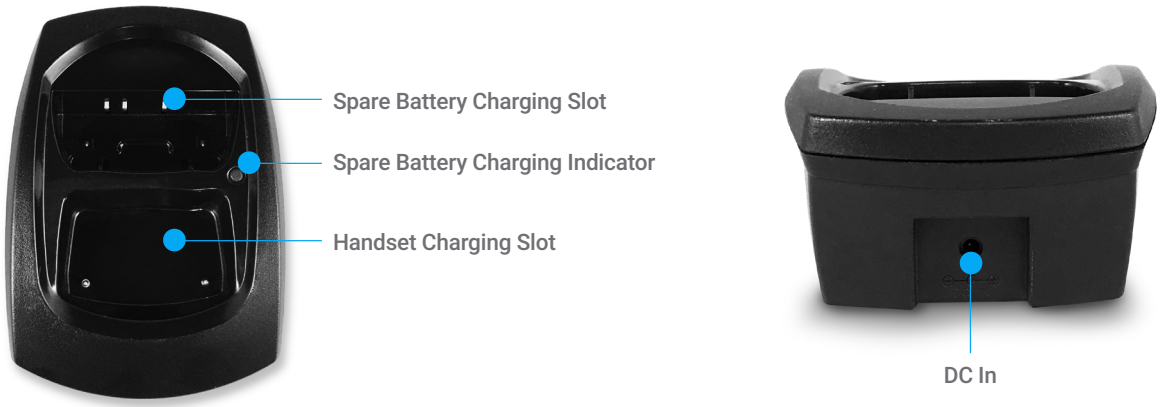
	FreeStyl 1	FreeStyl 1 Handset	FreeStyl 2	FreeStyl 2 Handset
Description	Extreme Range Scalable Cordless Phone System	FreeStyl 1 Expansion Handset	Extreme Range Scalable Cordless Phone System	FreeStyl 2 Expansion Handset
Master Carton				
Quantity	6	6	6	6
Weight	17.1 lbs.	9.2 lbs.	16.4 lbs.	9.3 lbs.
Dimensions (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
Contents				
Base Station	1 (FreeStyl1 Base, antenna installed)	N/A	1 (FreeStyl2 Base, antenna installed)	N/A
Base AC/DC Adapter	1	N/A	1	N/A
Base Antenna	(pre-installed)	N/A	(pre-installed)	N/A
Handset	1 FreeStyl2 Handset	1 FreeStyl2 Handset	1 FreeStyl2 Handset, antenna installed	1 FreeStyl2 Handset, antenna installed
Handset Antenna	Handset antenna (pre-installed)	Handset Antenna	Handset antenna (pre-installed)	Handset antenna (pre-installed)
Battery	1100mA Li-ion Battery Pack x 1	1100mA Li-ion Battery Pack x 1	1100mA Li-ion Battery Pack x 1	1100mA Li-ion Battery Pack x 1
Desktop Charger	1	1	1	1
Charger AC/DC Adapter	1	1	1	1
Telephone Cord	N/A	N/A	1	N/A
RJ-45 Cable	N/A	N/A	N/A	N/A

Packaging continued

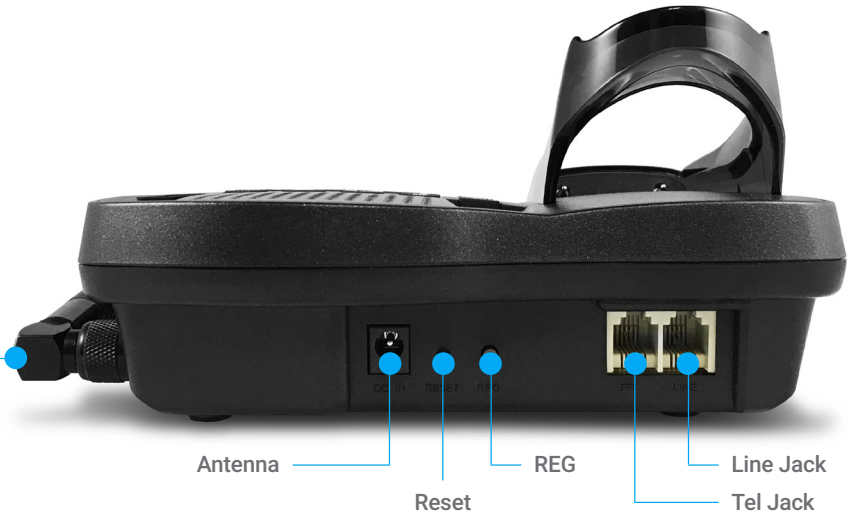
	FreeStyl 1	FreeStyl 1 Handset	FreeStyl 2	FreeStyl 2 Handset
Contents				
Audio In Cable	N/A	N/A	N/A	N/A
Belt Clip	N/A	N/A	1	1
Durapouch	N/A	N/A	N/A	N/A
User's Manual	1	N/A	1	N/A
Quick Guide	1	1	1	1
Warranty	1 year	1 year	1 year	1 year
FCC Certified	FCC Part 15	FCC Part 15	FCC Part 15, Part 68	FCC Part 15, Part 68

FreeStyl1 Handset

FreeStyl1 Handset Charger

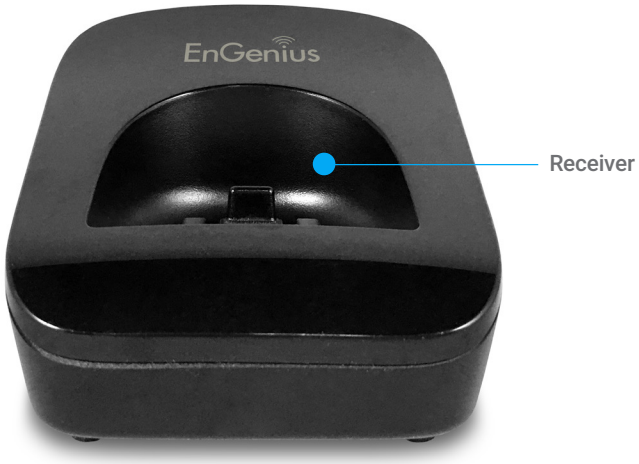


FreeStyl1 Base Station

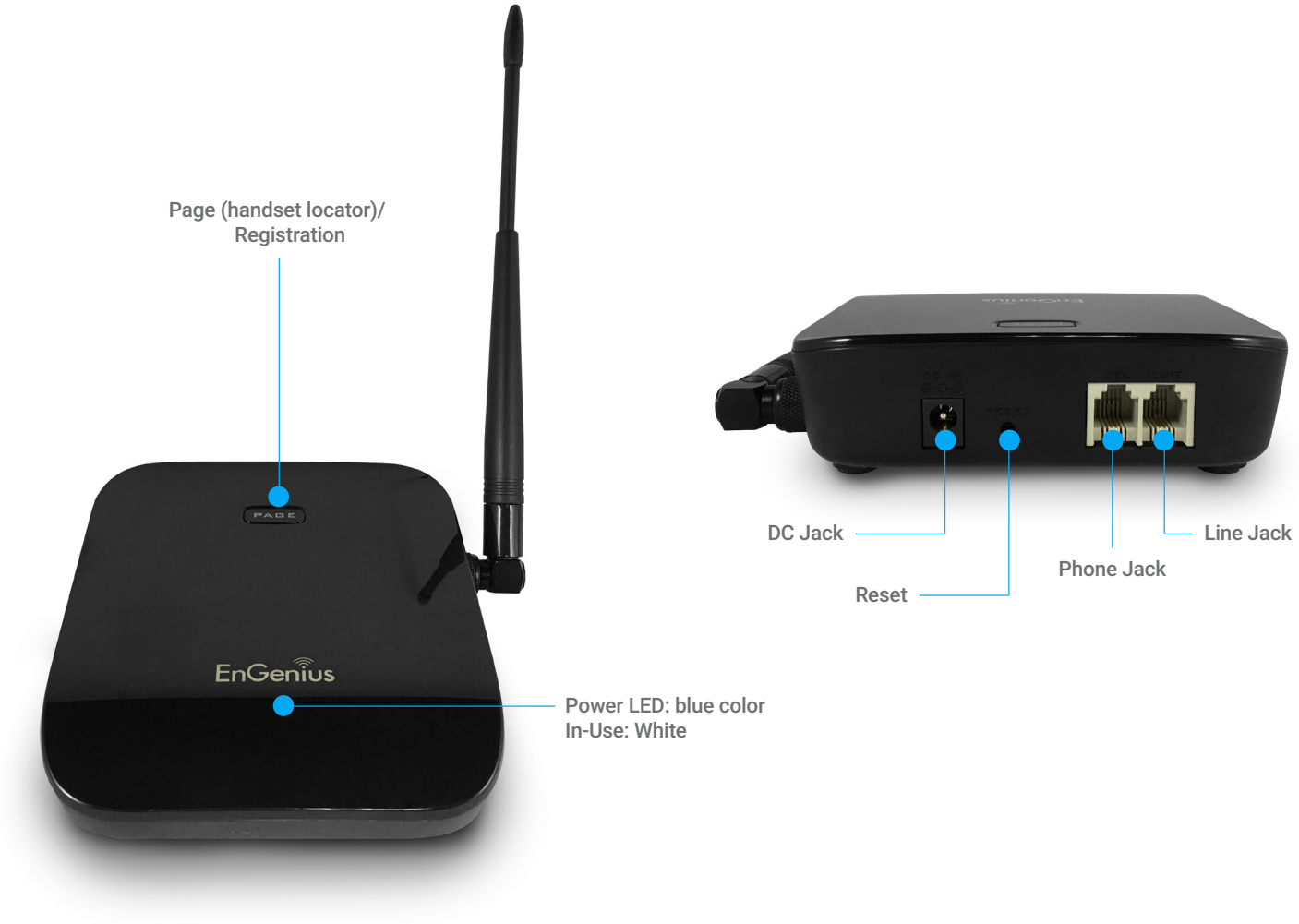


FreeStyl2 Handset

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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