



DuraFon Roam

Long-Range, Durable, SIP-based, Industrial Cordless Voice Communication System

Call Handoff between Base Units

Product Highlights

The DuraFon Roam is EnGenius' 2nd generation durable, long-range SIP cordless phone. The DuraFon Roam Voice Communication System delivers new levels of industry-leading range with the ability to roam between base units while on a call. The new DuraFon Roam system can provide up to 4 times the coverage of even our range-leading 1st generation platform. The brand's renowned durable handset's design and built-in digital two-way radio functions remain.

The DuraFon Roam allows for up to eight (8) base units with SIP and even an analog port on each base. The system can support up to 32 concurrent calls, 90 handsets and 90 SIP accounts. Designed to serve demanding environments where communication can be challenging due to the size or configuration of the environment. The DuraFon Roam well exceeds the range of a Wi-Fi or DECT phone. Built for use at these and similar environments:

- > Large Retail Stores
- > Assisted Living Facilities
- > Manufacturing & Industrial Plants
- > Warehouses
- > Grocery Stores
- > Hotels
- > Expansive Agricultural Properties
- > Equipment Rental Yards
- > Vehicle Service Centers

Features & Benefits

- Long Range Multi-Base SIP Voice Communication System (phone and digital two-way radio)
- · Supports up to 8 Base Units with Roaming
- Range Performance up to:
 - 200,000 sq. ft. or 24 Floors In-Building Penetration (Office)
 - 1,000,000 sq. ft. in Warehouse / Retail Store
 - 3,000 Acres Open Land (Farm / Ranch) Coverage
- Multi-Mode Communications
 - Total 8 Bases, Supports up to 32 Concurrent Calls (32-SIP or 24-SIP + 8-PSTN)
 - Works with Standard SIP protocols of IP-PBXs or hosted service providers
 - Intercom & Broadcast over IP
- Durability, Rugged Design
- Secure 900 MHz (902 ~ 928MHz) FHSS
- Web-GUI Configuration
- Doesn't use valuable Wi-Fi bandwidth







Premises Mobility Communications Solution

DuraFon Roam is a powerful, reliable, versatile multi-mode communications system that delivers industry-leading range and durability while providing significantly lower CapEx and OpEx when compared to other SIP cordless phone solutions.

Lower CapEx, faster deployments:

DuraFon Roam features EnGenius' high-power, easy-to-deploy multi-cell technology that covers up to 4 times indoors and outdoors coverage, penetrates in-building, minimizing the amount of equipment required.

Reduced OpEx, less downtime:

The proven durability of the DuraFon series – over 10 years of continued innovation and testing – ensures that the phones will survive in the most challenging environments where handsets are subjected to drops and shocks.

Flexible and easy-to-deploy:

Easily configured web-GUI via EnGenius Cloud, DuraFon Roam supports both PSTN and SIP functions, and works with any IP-PBX system or hosted service provider that supports the standard SIP protocol. In addition to long-range connectivity, the multi-mode system also enables users to communicate via 2-Way Intercom and PTT Broadcast modes.

Flexible, Multi-Mode Communications

Independent 2-Way Intercom

The DuraFon Roam's Handset provides handset-to-handset communication with or without going through the Base Station for quick contact with specific users without group chatter.

Broadcast Feature

DuraFon Roam offers the favored, "Push-to-Talk" feature through the Handset's Broadcast button, allowing users to create 1-way communications for 1-to-All or 1-to-A Handset Group for instant group communication.

Dual Interface

Support for both SIP and PSTN lines permit the connection of the Base Station to a legacy PBX, IP-PBX or phone service provider and gives users up to four (4) talk paths via four (4) digital calls or three (3) digital calls and one (1) analog line.

Cloud Access

EnGenius Cloud improves users operational efficiencies, help maintain high customer satisfaction, and cut the operational costs.

Easy Configuration

User can remotely configure the networking connectivity, multi-base, SIP account, audio setting, phonebook and all related settings in anywhere and anytime.

Easy Management

Real time and visualized information helps user to easily manage the DuraFon Roam's devices.

Easy Monitoring

User can collect the trunk/account/line status, handset/base status, call statistics and traffic statistics, present and analysis through dashboard, help user to monitor the whole operation of DuraFon Roam system.

Durable, Rugged Design

The DuraFon Roam's durable, rugged Handset is designed for use in demanding environments and tested to withstand 6-foot drops, over 50 times onto concrete floor without breaking.

Superior Long-Range Performance

DuraFon Roam implements a high-powered 900MHz proprietary air protocol, with high RF transmission and sensitivity to provide superior range and coverage for large footprint environments; covering up to 1,000,000 sq. ft. (retail store / warehouse), 3,000 acres (farm / ranch) and penetrating up to 24 floors or 200,000 sq. ft. (hotel / office).

Secure Wireless Communications

Adopting 900MHz (902~928MHz) FHSS (Frequency Hopping Spread Spectrum) technology, the DuraFon Roam ensures secure communications during conversations.

Multi-Cell Technology Expand Coverage

The DuraFon Roam features multi-cell technology that leverages multiple 900 MHz Base Stations for long-range coverage, expanding the coverage by adding Base Stations, helping companies enlarge the user capacity and range through multi-base installation.

20-Years of Trusted Reliability

EnGenius brings over 20 years of product and engineering experience with long-range leadership for voice communication to the DuraFon Roam system.

Low Total Cost of Ownership Available for SIP Deployments

Unlike other SIP systems, the DuraFon Roam offers the low TCO available for large-area SIP deployments. By simplifying and expediting system deployments, the DuraFon Roam lowers overall equipment costs and ensures less downtime through its proven reliability, reducing overall operating expenses for the life of the system.

Operates Independently of Wi-Fi Networks

By using the 900MHz frequency, DuraFon Roam operates independently of the Wi-Fi network and doesn't require valuable Wi-Fi bandwidth or present Wi-Fi QoS concerns. available for large

IP	Removable Base Antenna
/oice codec: G.711a, G.711u, G.729A	Flexible Port Dedication: Single, Group or All
SIP protocol: RFC3261	Standard SIP Protocol Connection
TMF: RFC2833, SIP INFO Hold: RFC3264	Remote Configuration via EnGenius Cloud
ransfer: RFC3515, RFC3891, RFC3892	Any Analog Line Connection: Landline, ATA, Cellular, VoIP or Satellite
Support Outbound Proxy	Supports Ring Groups & Hunt Groups
NS SRV Support	Type I/II Caller ID (FSK and DTMF)
ong-Range (8-Base)	Visual Message Waiting Indication (VMWI) for PSTN
4 Floors In-Building Penetration, 200,000 sq. ft. (Hotel / Office)	Conference Calling
,000,000 sq. ft. (Warehouse / Retail Store)	Modifiable Flash and DTMF Tone Timing
,000 Acres of Open Area (Farm / Ranch)	Secure, Digital Spread Spectrum w/Frequency Hopping Technology
Jurable	EnGenius Cloud Remote Access
Tested to withstand 6-Foot Drops, Over 50 Times onto Concrete Floors	Battery & Charger
Handset Features	Li-lon Technology
Cordless telephone	6-Hours of Talk Time
-Way Radio	50-Hours of Stand-By Time
Jser Handset Naming	Desktop Charger Supports Handset & Spare Battery
keypad Lock	4-Hour Recharge Time
peakerphone	Battery Hot-Swap While Call is On-Hold
caller ID	Optional Equipment
Call Waiting	External Base Antenna Kits: Optional indoor or outdoor antenna with 20-mete
/ibrate Mode	low-loss LMR-400 cable
ine Select	Lightning Protection Kit (static charge surge arrestor)
all Logs – Dialed & Received	Antenna Splitter
ledial	DuraPouch Phone Case
speed Dial	DuraFon Roam Value
Call Hold	No Monthly Bill
Call Transfer	No Per Minute charges
Vireless PBX Function Sharing	No Contracts
Vireless Phone Book Sharing	No Annual FCC License Fees
ilent Ring	No Extensive Infrastructure Installation
Aute	No QoS Concerns
Vired Headset	No Wireless Network Interference
BlueTooth	Manufacturer's Part Numbers
00 MHz, DSS, Frequency Hopping	DuraFon Roam-BSC (Base Station Controller)
electable Handset Grouping (7 groups)	DuraFon Roam-HC (Handset)
hone Book Supports 50 Entries	DuraFon Roam-BU (Base Unit)
ntercom (Handset-to-Handset)	
PTT Broadcast (One-to-Many)	
iystem	
00MHz	
/ulti-Cell Architecture	
Roaming & Handoff	
Aulti-Base up to 8	
LAN and 1 PSTN Ports per Base Unit	
/ulti-Handset up to 90	

Physical Interface

1. Controller



LED		Jack
Power(Orange)	RESET	RJ-45 x 2
LAN (Green)	LOWER	Micro SD Slot





2. Base Station





LED	Button	Jack
Power	Reset x 1	Line x1
Link 1	Reset x 1	LAN x 1
Link 2		DC x 1
Link 3		Grounding
Link 4		

Physical Interface

3. Handset





Button	Jack
Left & Right Soft-key	Headset Jack
Up	USB Jack
Down	
Talk/Speaker	
2-Way Intercom	
End & Power	
Broadcast	
0 ~ 9, *,#	

1. Controller: DuraFon Roam-BSC

Port Mirroring	Support one to one and many to one
Port Trunking	V
Packet Suppression Control / Storm Control	Broadcast/Multicast/Unknown-multicast, and unknown-unicast
Static MAC Address	V (support 256 entries)
Dynamic MAC List	V
Bandwidth control	Rate limit according to network speed:
VLAN	
802.1Q support	v
VLAN Group	Number of VLANs supported per device Max. Static VLAN #: 4094 Be able to configure VID from 1-4094
Port-base VLAN	Max. VLAN Group: equivalent to switch's port number
Voice VLAN	v
802.1ad Double VLAN (Q-in-Q)	N/A
CoS	
Queue	Number of priority queues supported : 8
CoS based on 802.1p priority	V
CoS based on physical port	V
CoS based on MAC	Destination address only
CoS based on TOS	v
CoS based on DSCP	v
Security	
802.1X Port-based Access Control	V
802.1X Guest VLAN	V
Port security	0~16383 entries
Storm control	Support Min. granularity: 64Kbps
DOS Attack Prevention	V
Access Control List (ACL)	V
Management	
PoE management	Power on/off per port
	Power class configuration (autoclass/userdefine)
	Power feeding with priority
	User define power limit

1. Controller: DuraFon Roam-BSC

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1. Controller: DuraFon Roam-BSC

Support number of PSTN line	8
Caller ID	v
Call transfer	v
Call hold	v
Intercom	V(via B/S and BSC)
Broadcast	V(via B/S and BSC)
Environmental	
Power Input	100-240V AC, 50/60 Hz
	TBD
Power Consumption	TBD
	TBD
Operating Temp	0 - 50'C
Storage Temp	-30 - 70'C
Humidity	10%-90%, relative, non-condensing
Dimensions	100 x 60 x 24mm
Unit Weight	80g

2. Base Station: DuraFon Roam-BU

Hardware Specification	
Frequency	902 - 928 MHz (Programmable)
RF Power	Peak: 28.5dBm(708mW)
Average: 19dBm(76mW)	v
RF Sensitivity	-108dBm
Channel Spacing	200 kHz
Number of Channels	128
Modulation	MSK
Multiple Access	Frequency Hopping TDMA
Frequency Hopping Rate	100 per second
TDMA Frame Length	10 ms
Number of Slots/Frame	8
Speech Coding	8 kbps G.729A
User Data Rate	128 kbps duplex
No. of System ID	65536
Port Functions	
RJ45	1
RJ11	1
RJ45 Console	1
Power Spec	
Power Type	PoE / External 48VDC ADP
AC Adapter	vDC 48V
Grounding jack	V
PoE Capability	
PoE standard	802.3af/at
Mechanical & ID	
Chassis Style	Ceiling mount / Wall mount
Material	Plastic
Color	White
Functional Buttons	
REG button	v
Reset Button	V

2. Base Station: DuraFon Roam-BU

1 ED Indiastera	
LED Indicators	
Device	Power LED: (GREEN) - Solid Light Power On - Light off Power Off L1 ~ L4 LED: (RED) - Solid light in-use - Light off standby
Copper Ports	LAN Mode - Green Solid Light Speed 1000Mbps - Amber Solid Light Speed 100Mbps - Off Light off Speed 10Mbps Link/Act (Green) Solid Light Link - Blinking Transmit or receive on this port - Light off No Link
	- Light off No Link
SIP	
Voice codec: G.711a, G.711u, G.729A	V
SIP protocol: RFC3261	V
DTMF: RFC2833, SIP INFO	V
Hold: RFC3264	V
Transfer: RFC3515, RFC3891, RFC3892	V
Support Outbound Proxy	V
DNS SRV Support	V
Port Functions	
1 LAN and 1 PSTN Ports per Base Unit	V
Removable Base Antenna	V
Flexible Port Dedication: Single, Group or All	V
Standard SIP Protocol Connection	V
Any Analog Line Connection: Landline, ATA, Cellular, VoIP or Satellite	V
Supports Ring Groups & Hunt Groups	V
Type I/II Caller ID (FSK and DTMF)	V
Visual Message Waiting Indication (VMWI) for PSTN	V
Conference Calling	V
Modifiable Flash and DTMF Tone Timing for PSTN	V
Secure, Digital Spread Spectrum w/Frequency Hopping Technology	V
Environmental	
	твр
Power Consumption	TBD
	TBD
Operating Temp	0 - 50'C
Storage Temp	-30 - 70'C
Humidity	10%-90%, relative, non-condensing
Dimensions	твр
Unit Weight	TBD

3. Portable Handset: DuraFon Roam-HC

Hardware Specification	
Frequency	902 - 928 MHz (Programmable)
RF Power	Peak: 28.5dBm(708mW) Average: 19dBm(76mW)
RF Sensitivity	-108dBm
Channel Spacing	200 kHz
Number of Channels	128
Modulation	MSK
Multiple Access	Frequency Hopping TDMA
Frequency Hopping Rate	100 per second
TDMA Frame Length	10 ms
Number of Slots/Frame	8
Speech Coding	8 kbps G.729A
User Data Rate	128 kbps duplex
No. of System ID	65536
Environmental	
Power Source	AC/DC 100~240V/5.5V, 1.5A 3.7 V, 1700 mAh Li-Ion
Regulation Compliance	FCC Part 15, Part 68 CAN/DOC RSS210, CS03
Operating Temperature	-10 - 60 °C
Storage Temperature	-10 - 70 °C
Humidity	20 – 75 %
Function	
Dimension	161×58×31mm
Weight	175g
Operation range	> 5km
Durable design	V
Multiple handsets	V, up to 90
Half Duplex Broadcast	V
Full Duplex Intercom	V
Phonebook	V, 90 entries
PBX Functions	V, 9 entries per HS
Speakerphone	V

3. Portable Handset: DuraFon Roam-HC

FSK/DTMF Caller ID	V, FSK
Security Code	65,536
Call Hold	V
Caller ID	V
Call Logs	V
Call Transfer	V
Call Waiting	V
Headset	V
Blue Tooth	V
Keypad Lock	V
Line/Base Select	V
Message Waiting Indicator	V
Mute	V
Redial	V
Handset Grouping (7 Groups)	V, up to 7
Silent Ring	V
User Handset Naming	V
Vibrate Mode	V
Wireless PBX Options Sharingv	V
Wireless Phone Book sharing	V
Handset buttons	
- End/Power	V
- Left & Right soft keys	V
- Up & Down scrolling	V
- Broadcast	V
- Talk/Speakerphone/Flash	V
- Intercom	V
- 0 ~ 9, #, *	V
Handset buttons	
- Earphone	V
- Micro-USB	V
N	

Application

In-building IP-PBX connection



