



Long Range Cordless System

The EnGenius EP800 is a digital long range cordless system with a frequency band of 863 MHz ~ 865 MHz. It contains a handset speakerphone and multi-languages display. The EP800 makes it possible to make calls over the fixed line with a range up to 2km. Therefore the EP800 is ideal for industrial locations, large company building, premises or the agricultural sector. It has an intercom/Broadcast between H/S and auto detection of FSK and CID signal. It is also possible to auto change channel during conversation.

The handsets are compatible to 9 set per base station with a maximum of 4 base stations

Key Features

- + Handset with Speakerphone function
- + Expandable up to 4 Bases / 36 Handsets
- + Half Duplex Broadcast and Full Duplex 2-way Intercom
- + 50 Phonebook Entries
- + ETSI Caller ID Type I/II
- + Display Language: EN/FR/ES/DE/IT/NL/HG/TK/CZ/PL/RM
- + CE/RoHS compliant



Electrical specifications	Base Station	Portable Handset
Frequency:	863 - 865 MHz	863 - 865 MHz
RF Output Power:	Peak: 8 dBm Average: 5 dBm	Peak: 7 dBm Average: 5 dBm
Channel Spacing:	50 kHz	50 kHz
Nr. of Channels:	38	38
Modulation:	GMSK	GMSK
TDD Frame Length:	10 ms	10 ms
Nr. of Slots/Frame:	2	2
Receiver Sensitivity:	≤ -116 dBm (@ BER 10^{-2})	≤ -116 dBm (@ BER 10^{-2})
Antenna Gain:	2 dBi	Long: 2.5 dBi Short: 1.5 dBi
Antenna Connector:	TNC	Proprietary
Telephone Interface:	RJ11 * 2	NA
Channel Coding:	$\frac{1}{2}$ rate Convolutional + CRC	$\frac{1}{2}$ rate Convolutional + CRC
Transmission Data Rate:	42.667 kbps	42.667 kbps
Speech Coding:	8 kbps G.729A	8 kbps G.729A
User Data Rate:	32 kbps duplex	32 kbps duplex
Duplex:	Time Division Duplex (TDD)	Time Division Duplex (TDD)
Multiple Access:	FDMA	FDMA
Nr. of System ID:	65,535	65,535
Ring Signal:	20-50 Hz, 30-90 Vrms	NA
Power Source:	100-900 ms programmable	3.7 V/1100mAh Li-Ion Battery
Charger Current:	NA	550mA (550/850 mA for desktop charger)
Operating Temperature:	0 – 50 °C	-10 - 60 °C
Regulation Compliance:	EN 301 357-2 (RF) EN 301 489 (EMC) EN 60950 (Safety)	EN 301 357-2 (RF) EN 301 489 (EMC) EN 60950 (Safety) EB 50371 (RF Safety)