DIGITAL INTERCOM

WBPX

Multi-Channel Wireless Beltpack

The Green-GO communications system is a Ethernet network based digital intercom system. Users can talk to multiple groups and/or direct to other users. Talking to a group can be compared to the analogue party-line or ring. A direct user talk is a private conversation. There is NO central matrix or routing engine required for the system, so it scalesas it is needed by just adding devices to the network. An extra advantage of having no central unit, there is no single point of failure. Audio distribution, like program audio, can be easily injected in to the system and send to a group. The audio can then be picked up by any device on the network that is interested in it.

The Green-GO Wireless Belt-pack is based on the DECT technology. A full-colour OLED high- resolution display provides text information, cue signals, and shows the functions of the 4 buttons. With the Green-Go Wireless System, 1 antenna can serve 4 belt-packs, and each belt-pack can be connected to 4 antennas. Two rotary encoders, one on either side of the unit to suit both right and left handed users, are push-able toanswer the latest audio source. They can also be programmed to control various other functions, for example one for level and one for channel selection. Four push buttons can be configured to provide instant access up to four channels. All matrix data is held within the belt-pack, which is powered via a supplied battery. Headphone/microphone set (not supplied) connects via a 4-pin XLR4 panel connector.

32 Channels
This system has 32 channels, a program audio channel and an extra channel to receive direct user communication.

250 Groups
An analogue system has one or two groups, the Green-GO system offers a maximum of 250 groups.

3000 Users
A user can be active on any device, even on multiple devices. Each user has a unique ID and a human readable name

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Specifications

- Dimensions of Beltpack and Antenna: 145mm x 85mm x 30mm
- Weight of Beltpack: 400g
- Weight of Antenna: 200g
- Power : Beltpack: 1800mAh Lithium-Ion battery, rechargeable thru the mini-USB port. Battery can be easy replaced and charged externally.
- Antenna: Powered by PoE (802.3af Standard Power over Ethernet) from the Ethernet port.
- Supports EU-DECT (CAT-iq V2.0, v3.0 partly), DECT6.0 for North America and Japan DECT
- ETSI (EU-DECT) and FCC (DECT 6.0) certified
- J-DECT pre-certified ETSI 300 444 (DECT GAP) compliant
- RF range: 1870 MHz to 1930 MHz
- Receiver sensitivity < -93 dBm
- Transmit power:
  EU: 23 dBm: 1881 MHz - 1897 MHz
  USA: 20 dBm: 1921 MHz - 1928 MHz
  JP: 23 dBm: 1895 MHz - 1903 MHz

General Audio Specifications

- Measurements made with MCD8 and WBP beltpack via WAA antenna
- Output headset, volume 0 dB
- Values are RMS 22Hz – 22kHz un-weighted
- Digital audio format: linear 16 bit 16/32 kHz sample rate (standard/enhanced audio)
- Wireless link: DECT with G722 wideband codec

Input	Headset mic	Panel mic	Line
Connector	XLR4M pin 1 – 2	XLR 3F	XLR 3F
Type	unbalanced	balanced	balanced
Electret mic bias / Phantom power	0/ 2,0/ 2,5/ 3,3V	+10V	
Gain	+30 - +70 dB	+24 - +64 dB	-6 - +34 dB
Limit-level AGC	-12 dBFS = +2dBu		
Gate threshold	Off, -45 dB - -20 dB 5 dB steps		
Sidetone level	Mute, -24dB – 0 dB 3dB steps		
All wired units			
Noise	-70 - -55 dBu	-70 - -60 dBu	-70 - -55 dBu
THD @ 1kHz 40 dB gain 0 dBu out	-70dB (0,03%)	-70dB (0,03%)	-70dB (0,03%)
Latency mic- network – headphone	12 msec	12 msec	12 msec
Wireless beltpack			
Noise	- 63 - -52 dBu		
THD @ 1kHz 40 dB gain 0 dBu out	-50 dB (0,3%)		
Latency mic- network – headphone	26 msec		
Frequency response standard	200 – 7000 Hz	140 – 7000 Hz	80 – 7000 Hz
Frequency response enhanced	200 – 14000 Hz	140 – 14000 Hz	80 – 14000 Hz
Enhanced only on wired units channels			
Output	**Headset**	**Internal speaker**	**Line**
	All units	MCD/WP	MCD
Connector	XLR4M pin 3 – 4		XLR 3M
Nominal level	0 dBu		0 dBu
Max output	+20 dBu	2 Watt	+12 dBu
			o/p imp 24
Load	32 – 600 Ohm	>8 Ohm	Ohm