TPL
Systèmes de communications

BIRDY SLIM IoT

2way POCSAG pager - Small and light, but RUGGED

Birdy Slim IoT is a 2Way POCSAG pager designed and manufactured by TPL Systèmes to be used in every environment and situation where a small and light paging device is required.

Based on a brand new electronic architecture both on logic and radio, **Birdy Slim IoT** integrates the latest components available on the market.

Smaller than a mobile phone, it holds in your hand and is very easy to carry in a pocket or on a belt.

Despite its lightness, **Birdy Slim IoT** is a rugged paging device offering high performance features: rugged case, IP 67 protection rate, RFID tag inside, large display with color backlight.

Birdy Slim IoT is a 128 RIC pager, available in many frequency ranges, in synthesized version, for POCSAG or FLEX networks.

Birdy Slim IoT is also able to transmit POCSAG messages through a centralization receiver. This enables to use it as a pager with acknowledgement receipt, Man-Down and SOS transmit functions ... etc.

It offers also IoT transmission capability and is able to work under LoRa or Sigfox networks.

Birdy Slim IoT carries a GPS module for outdoor geolocation and also a BT one for indoor geolocation with BT beacons of TPL Systèmes IPS solution.

Birdy Slim IoT is bundled with a desktop charger, which offers a very compact and functional design. A Lite model is also available.

Birdy Slim IoT is equipped with a LED flashing light, high luminosity, to advise that an alarm is being received. Remote pager fleet management is also available for **Birdy Slim IoT** thanks to its eBirdy solution. TPL Systèmes has developed specific protocols for this Smartpager for IPS and ack-back management.

Whatever can be your needs, you will find with the **Birdy Slim IoT** the perfect and Smartpager that you can expect, to provide high level features for Fire Brigades, Red Cross, Industry, Hospitals, Entertainment centers, Campus & Schools networks.

BT   LoRa™

sigfox   GNSS

Features

Message service features

- Receiver addresses: up to 128 numeric and/or alphanumeric addresses
- Possibility of 4 sub-addresses by address with pre-fixed message
- Memory (maximum No of messages) up to 20 messages of 326 characters each for user and 64 messages in internal non volatile memory
- Unread message alert
- Alert melodies: 21 tones
- Vibrate alert / Tone and vibrate /Vibrate then tone
- Flash led
- Silent mode
- Low battery warning
- LCD display up to 8 lines of 16 characters, back light multicolour, modifiable zoom
- Option: Partial Over-The-Air (OTA) programming

General features

- Li-Ion battery 3.7V/950mA
- Accelerometer for Man Down features and to allow the reading of message in all positions
- Languages: French, English, German, Spanish, Dutch, Slovenian.
- Weight: 90 grs
- Size: 97,4 x 54,7 x 16,7 mm
- Supplied with 1 belt clip, 1 lanyard
- Operating humidity and temperature from -10°C to 60°C, 95% at 40°C
- Storage humidity and temperature from -10°C to 70°C, 95% at 40°C
- Contact relay for external output (alert siren remote control)

POCSAG features

- Receiver
- Frequencies: All VHF,UHF & 900MHz are available upon request
- Channel spacing: 12.5/20/25 KHz
- Transmission speed: 512bps or 1200bps or 2400bps
- Modulation: NRZ
- Frequency deviation: +/- 4.5KHz
- Sensitivity: 2.5µV/m, 1200bps : 3.0µV/m, 2400bps : 3.5µV/m* Selectivity: 65dB +/-25KHz
- Intermodulation protection: › 65 dB
- Frequency stability: ±8 ppm
- Alert signal: › 86dBA @ 30 cm,
- frequency 2731Hz

Transmission POCSAG

- Output power: up to +14dBm
- Frequency: 438-470MHz/866-870MHz/900MHz
- Channel spacing: 12.5/20/25 KHz
- Transmission speed: 512bps or 1200bps or 2400bps
- Modulation: NRZ / FSK
- Frequency deviation: ±2.25KHz
- (12.5KHz) / ±3.6KHz (20KHz) /
- ±4.5KHz (25KHz)
- Modulation rise time: 250µs ±25µs
- Frequency stability: ±8 ppm

BT module

- Modulation: BT Low Energy 4.2
- Frequency: ISM 2.4GHz
- Receiver Sensitivity: -92dBm

GPS module specification

- High sensitivity GPS - 165 dBm
- 66 channels GPS - Cold Start 35 seconds
- Hot Start 1 second - PTI functionality

Accessories

Desktop charger

Vertical pouch nylon or leather

Belt clip

Programming kit

Software option for encryption Secure Paging Protocol with AES256

* Sensitivity measurement in UHF in the best position