

## Part No 07814GB2

### Submersible GPS/Duress Speaker Mic For P25 BLP600 Series Portable Radios

The 07814GB2 Microphone is applicable for patrolling officer and motorcycle, motorbike, snow mobile. IP67 rated (dust and water proof). A rugged designed speaker microphone with a sealed 3.5mm audio jack and a duress emergency button on top, as well as GPS receiver. It includes a B2 Termination compatible with Benelec Radios series BLP400,450,600,650 & Relm KNG Series Radios.

#### Application

Link coverage for the Commercial Radio Band

#### Features

- ✓ IP67 Microphone Housing
- ✓ Integrated Duress Button
- ✓ External Audio Port
- ✓ L1 Frequency (1575.42 MHz)
- ✓ C/A Code
- ✓ 22-Channel Continuous Tracking
- ✓ NMEA Input/Output, PPS Timing Output
- ✓ SBAS (WAAS, EGNOS, MSAS)
- ✓ aGPS Capable
- ✓ Update Rate up to 1 Hz
- ✓ Integrated Antenna Element (Omni-Directional)
- ✓ Internal 32 kHz Real-Time Clock
- ✓ Internal Low Noise Amplifier

#### Optional

07811S	Listen Only Acoustic Ear Tube
07821M	Ear Mold Kit
07821T	Replacement Ear Tube
07821Q	Quick disconnect Ear Tube

#### Warranty

12 months (Please refer to [Benelec Terms & Conditions](#))

#### Packaging

Individually in a plastic bag, G.W. 180g  
Carton packaging, box 240x240x250 @ 20 pcs, G.W. 5 kgs



## Specifications

### GPS Performance

Update rate	1 Hz (default), up to 5 Hz
Number of channels	22
<b>Accuracy:</b>	
Position (autonomous)	<2.5 m 50%, <5 m 90%
Position (SBAS)	<2 m 50%, <4 m 90%
Altitude (autonomous)	<5 m 50%, <8 m 90%
Altitude (SBAS)	<3 m 50%, <5 m 90%
PPS	< ±25 ns@ 50%
<b>Acquisition time:</b>	
Re-acquisition	2 s 50%
Hot start	2 s 50%
Warm start	35 s 50%
Cold start	38 s 50%
<b>Sensitivity</b>	
Tracking	-160 dBm
Acquisition	-146 dBm
Dynamics	
Acceleration	2g
Velocity	515 m/s (COCOM Limit)

### Electrical

Serial Interface - UART:	1 bidirectional NMEA
Level	2.8 V LVTTTL level
PPS Interface:	1 Hz timing pulse, output
Level	2.8 V LVTTTL level
PPS accuracy to UTC	< ±25 ns@ 50%
Pulse width	4.2 µs default (configurable)
<b>Main power supply:</b>	
Vcc DC Levels	3.0 V to 3.6 V; 3.3 V typical
Consumption (current)	<43 mA
<b>RTC and backup power supply:</b>	
Vrtc DC levels	2.0 V to Vee
Consumption (current)	6 µA typ @ +20 °C

### Environmental

<b>Temperature</b>	
Operating	-40 °C to +85°C
Storage	-55 °C to + 105°C
Humidity	5% to 95% non-condensing @ 60 °c
<b>Vibration</b>	
5 Hz to 20 Hz	0.008 g'/Hz
20 Hz to 100 Hz	0.05 g'/Hz
100 Hz to 900 Hz	-3 dB/octave

### Physical

Dimensions	100 X 64 x 44mm
Weight	195g