RealTrac Rio Intercom

RealTrac RIO Intercom is the mobile device combining the positioning system's tag function and voice communication.

Intercom measures the distances to the access points (gateway and repeaters) and sends the results to the air. Gateway receives that data and re-transmit it to the server for processing and determination of location against repeaters on the map.

Additionally, the intercom allows voice calls to the other intercoms and to the server (operator's one).

RealTrac server could be connected to the office phone network via SIP protocol, and in this manner any call from intercom could be re-transmitted to any office phone.

The intercom is equipped with 2 buttons: call initiation and cancellation (disconnection). When a call is initiated such call is directed to the system operator by default.

Specification

Parameter	Value
Operating frequency	2.4-2.48 GHz
P_{Rx} — receiver's sensitivity	-89 dBm (80 MHz, 1 Mbit/sec)
Power output Tx	Up to 20 dBm
Overall dimensions	96x56x26 mm
Operating temperature range	from -0 to +50 º C
Supply voltage	3.7 V (integrated battery 1.800 mA/h)
Input current	up to 500 mA (pulse)
Recharger's supply voltage	AC ~220V 50Hz
Controls	Call / answer and volume button On / Off and call termination button
Integrated speaker	1W, 100 dB
Integrated microphone	Yes