



RTX8200

LOCATION GATEWAY STATION
PRODUCT SHEET

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RTX8200 LOCATION GATEWAY

The Bluetooth beacon is used for indoor localization in large building like hospitals, malls, offices or airport terminals.

The beacon is placed in the different rooms, or doorways and when a terminal, with BTLE support, detects the beacon it will report the id information to a central sever via the terminals DECT connection.

The central server will use this information, based on a deployment plan of the beacons, to detect the terminal location.



Figure 1: RTX8200 Location Gateway and Bluetooth Tag

FEATURES

- Low-power Bluetooth SoC for long-term battery operation
- 2 x AA batteries
- Power by USB or 5-24V DC
- 4-antenna array for Bluetooth beamforming
- 6 Bluetooth RF power steps for controlling range (2-15 meter)
- Bluetooth Low Energy 4.1
- Optionally 2xSMA for external antenna loops (with individual IDs)
- Optionally fitted with DECT modem for maintenance and monitoring
- Key for configuration enable

BLUETOOTH TAG FEATURES

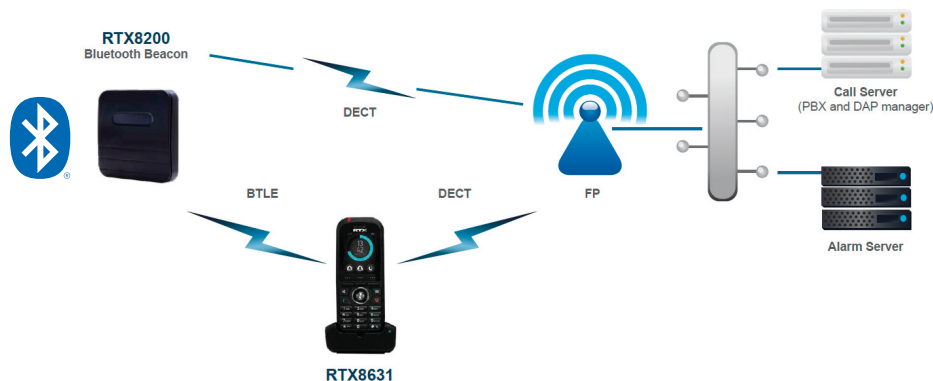
- Buzzer
- LED
- Button
- BT LE
- CR2016 3V lithium

MODE 1

Beacon advertises (transmit mode), which a passing phone e.g. RTX8631 will detect and report to the alarm server.

MODE 2

Beacon scan for BTLE devices (receiver mode) of passing equipment and will pass the detections to the alarm server.



TECHNICAL SPECIFICATIONS

BLUETOOTH	<ul style="list-style-type: none">• Bluetooth Low Energy 4.1• Profiles GAP / GATT• Beacon Advertisement mode<ul style="list-style-type: none">- iBeacon (Apple)- AltBeacon (Radius)- Eddystone (Google)
CONFIGURATION / DEPLOYMENT	<ul style="list-style-type: none">• Configuration via:<ul style="list-style-type: none">- Handset- Base provisioning• Deployment survey tool in DECT handset
DECT	<ul style="list-style-type: none">• Frequency bands:<ul style="list-style-type: none">- 1880 - 1900MHz (EU)- 1910 - 1930MHz (LATAM)- 1910 - 1920MHz (Brazil)- 1920 - 1930MHz (US)• Range:<ul style="list-style-type: none">- Indoor: 50m- Outdoor: 300m
ENVIRONMENTAL CONDITIONS	<ul style="list-style-type: none">• ESD 8KV Contact and 12KV Air• Operating conditions: 0 - 45 degrees
SIZE AND WEIGHT	<ul style="list-style-type: none">• Size: 112 x 112 x 23mm• Weight: 155g
RELIABILITY SPEC	<ul style="list-style-type: none">• Drop height: 1.0 m on hardwood floor
POWER SUPPLY OPTION	<ul style="list-style-type: none">• 5-24V DC connection• USB power connection• 2 x AA Alkaline• POE IEEE 802.3af compliant
APPROVALS	<ul style="list-style-type: none">• EU,US, CA and AUS
BOX CONTENT	<ul style="list-style-type: none">• 1 RTX8200 Beacon• 2 batteries• 1 Safety sheet