



RTX4027

REPEATER
PRODUCT SHEET

Extend the range easy and simple with the RTX4027 repeater. A repeater can be deployed when a need to extend the range of a DECT telephone arises.

RTX4027 REPEATER

The RTX4027 repeater ensures more coverage and range. This guarantees perfect quality and interruption-free calls in large premises. Each repeater adds up to 50m indoor and 300m outdoor of extra range. Combined with encrypted daisy chaining this adds 150m indoor or 900m outdoor range to a base.

The DECT repeater is designed in accordance with the Digital Enhanced Cordless Telecommunications (DECT) standard, EN300700 V2.2.0.

FEATURES

- Air synchronisations
- Supports automatic handover of calls between cells
- Environmental conditions: temp range, from -10°C to +50°C
- POWER SUPPLY – 230 VAC and 110 VAC versions available
- FREQUENCY/COVERAGE - Frequency bands coverage: EU/AU/NZ, US/CA, LATAM, TW
- 2 internal omni-directional antennas
- The DECT repeater is compliant with: TBR6, TBR22 (Generic Access Profile, GAP) - ETS 300 700 - ETSI Wireless Relay
- 12 slot support
- Handling of 4 active narrow-band calls simultaneously
- Handling of 2 active wide-band calls simultaneously
- Encrypted Daisy Chained
- Auto Configuration on Single Cell and Dual Cell
- Same LED patterns as RTX9431
- Zero Touch installation
- DECT Security Step B
- New Mechanics

FLEXIBLE AND RELIABLE

RTX4027 is a part of RTX's high-quality communication solutions designed to be easy-to-install, flexible and reliable.

Whatever the size of the business is, RTX can deliver complete DECT solutions to small, medium and large enterprises.



Figure 1: RTX4027 Repeater

PART OF A COMPLETE SOLUTION

The RTX solutions are fully expandable, and the RTX4027 is compatible with all RTX system solutions - extending range indoor and outdoor. This ensures user efficiency across different industries, as an RTX solution can be used in businesses from general offices and call centers to storage facilities, hospitality, manufacturing, and retail.

The RTX4027 repeater has been designed with the right supporting features and tools, making it possible to combine several models in a single wireless system.

There is a wide variety of products that are compatible with the RTX4027 repeater. Among these are RTX9431, the Next Generation Single Cell/Dual Cell Base Station, and RTX8431, the Next Generation Entry Level Handset. A complete solution, to ensure a large range of terminals, could consist of Handsets, Headsets, RTX8200 Location Gateways (BTLE Beacon) and DECT Repeaters. Another scenario consists of two RTX9431 base stations combined into one system, to ensure a larger coverage area, and up to 20 calls per system, with up to 12 RTX4027 repeaters, which can extend the range even more.

TECHNICAL SPECIFICATIONS

GENERAL FEATURES

- Worldwide DECT support
- Extending the DECT coverage
- Supports automatic handover of calls between cells
- Handling of 2 (wide-band) or 4 (narrow-band) calls simultaneously
- Up to 6 repeaters per base station
- Automatic registration method
- Environmental conditions: temp range, from -10°C to +50°C

DESIGN/SIZE

- Indoor cabinet
- Manual mounting kit
- Easily mounted on walls
- Size: 109 x 93 x 24mm (H x W x D)

POWER SUPPLY

- 230 VAC and 110 VAC versions available

FREQUENCY/COVERAGE

- Frequency bands coverage: EU/AU/NZ, US/CA, LATAM, TW
- Up to 50m indoor and 300m outdoor
- Receiver sensitivity: -92dBm
- 2 internal omni-directional antennas

STANDARDS

- The DECT repeater is designed in accordance with the Digital Enhanced Cordless Telecommunications (DECT) standard
- The DECT repeater is compliant with:
 - TBR6, TBR22 (Generic Access Profile, GAP)

APPROVALS

- EN 301489-1 V2.1.1 (2017-02)
- EN 301489-6 V2.1.1 (2017-02)
- EN55032:2015
- EN55035:2017
- EN 61000-3-2:2014
- EN 61000 -3-3:2013
- IEC60945- EMC
- EN 301406V2.2.2
- SAR-EN50385:2002 MPE
- AS/NZS CISPR 32
- RF- based on EN301406
- AS/NZS 2772.1;AS/NZS 2772.2:2011
- FCC Part15B
- FCC Part15D
- ICES-003 Issue 6
- IC RSS-213 Issue 3

LED INDICATOR

- Radio link quality indication

RTX4027 ADDITIONAL FEATURES

- Repeater to repeater registration (max. 3 repeaters in daisy chain)
- 12 slot support
- DECT encryption
- Encrypted Daisy Chained
- Auto Configuration on RTX9431
- Same LED patterns as RTX9431
- Zero Touch installation
- DECT Security Step B