RTX
WIRELESS WISDOM

RTX

WIRELESS HEADSET SERIES

RTX7251, RTX7252, RTX7254, RTX7451

PRODUCT SHEET

The RTX series of Wireless Headsets is high-end headsets and base station, with an appealing design and full functionality.

RTX WIRELESS HEADSET SERIES

The RTX series of Wireless Headsets is high-end headsets and base station, with an appealing design and full functionality. The headsets are combined DECT and Bluetooth and can connect to both the DECT base station and a mobile phone.

Headset and base

FEATURES

- Wireless DECT and Bluetooth headset series
- Charging on base station and via USB-C cable
- Step C security level
- Base station interface: DHSG, RJ9, RJ12, RJ45, USB
- Multi-color LED status light located on the microphone boom arm – including busy-light
- Support of Super Wide Band (CELT48)
- Supports ENC (Environmental Noise Cancellation)
- Advanced Hybrid-ANC (4 mics. solution)
- Full integration of headset and base station into RTX VoIP multicell and dual cell systems
- Up to 20 hours talk time and 100 hours standby time

A UNIQUE DESIGN

The design of the headset and base station is unique, and include, among other design elements, an headset boom arm with a multi-color LED for call status indication. The base station is designed with a large display for call control, status information, and configuration of the headset, and has room for spare battery charging and configurable deskphone interface. The cushions are replaceable, and both on-ear and over-ear cushions are available. Audio tuning will automatically adapt to the selected cushion on the ANC headset.

BASE STATION

The RTX7451 base is an EHS/USB base in the RTX headset series which also contains DECT dongle, wireless headsets and wired headsets. The base can be connected to a Desk Phone, PC or Laptop.

MONO, STEREO AND STEREO ANC

The headset series is available in three variants: mono (RTX7251), stereo (RTX7252) and stereo ANC (RTX7254). The Hybrid-ANC (Active Noise Cancellation) performance of the Stereo ANC Headset is superior. Combined with the advanced RTX ENC (Environmental Noise Cancellation) solution to suppress unwanted environmental noise for microphone input, the total perceived audio experience will be exceptional for the user.

PART OF RTX'S INTEGRATION SOLUTION

The headsets and base are part of the RTX integration solution. This solution enables handover between the headset and RTX multicell or Dual cell VoIP System, and allows calls from VoIP and PC (Softphone) on the headset base station and VoIP system. The user will experience a seamless handover between the systems resulting in more range and flexibility.

RTX mono and stereo headsets and RTX base

TECHNICAL SPECIFICATIONS

RTX725X HIGH END HEADSET

DECT

- Frequency band:
  - 1880 – 1895 MHz (Taiwan)
  - 1880 – 1900 MHz (EMEA)
  - 1910 – 1920 MHz (Brazil & Uruguay)
  - 1910 – 1930 MHz (LATAM, Argentina, Chile)
  - 1920 – 1930 MHz (USA, Canada)
- Output Power:
  - 21 dBm (Uruguay, Canada, US, Malaysia, Jordan)
  - 22 dBm (Chile, Australia)
  - 24 dBm (Rest of the world)
- Sensitivity: -92 dBm
- Antenna: 2 for fast antenna diversity
- Range (max): 200m outdoor
- Security: Class C
- Encryption: AES256
- Standard DECT interface
- Handover to VoIP multicell systems

AUDIO

- Narrowband audio: G.726, BV16
- Wideband audio (HD): G.722, BV32
- Music: 128 kbit/s CELT
- Coverage warning: On/Off

LED INDICATOR

- Tri color status LED
- Visible on microphone boom tip

HARDWARE FEATURES

- Battery: Lithium Polymer (replaceable)
- Battery capacity: 600 mA
- Microphones: 2 for talk (ENC) and 4 for ANC
- Headset interface: USB to connect to the RTX7451 base
- USB-C Charging terminals
- Operating conditions: 0°C to 45°C

BATTERY PERFORMANCE

- Up to 20 hours talk time DECT
- Up to 10 hours talk time BT
- Up to 100 hours standby time (DECT only)
- 3 hours charge time (0% - 90%)
- Quick charge: 25% in 30 minutes
- Charge stop temperature:
  - Low temperature stop charge: 5°C
  - High temperature stop charger: 40°C

LANGUAGE

- English (Voice prompts)

CALL FEATURES

- Call waiting
- Hold / Retrieve
- Supports 2 simultaneous calls (only one on hold)
- Call Conference
- Call Swap

SOFTWARE UPDATE

- Downloadable via USB and Base Station
  - Wireless (DECT)
  - Headset placed in Base Station
- Air-interface
- PC tool

BLUETOOTH

- 4 pairings
- BT Version: 4.2 Classic
- Frequency: 2401 MHz – 2480 MHz
- Sensitivity: Better than -92 dBm @ DH1, measured at antenna
- Output power: Class 2. 2,5mW (4dBm)
- Range: 10 meters in free line of sight measured outside
- Antenna: Return loss of < -5dB in the relevant frequency band
- 2 simultaneous connections
- Profiles:
  - A2DP (1.2 Advanced Audio Distribution Profile)
  - HSP (1.2 Headset Profile)
  - HFP (1.6 Handsfree Profile)
  - DIP (1.3 Device ID Profile)
  - AVRCP (1.4 Audio/Video Remote Control Profile)
- Codec:
  - SBC (For stereo streaming of music)
  - mSBC (For wideband call)
- Class of device:
  - 0x200404 Headset device
  - 0x200418 Headphones
- Encryption: Default 128-bit encryption
- Pairing mode: Discoverable only by user request and limited time 1 minute
- Automatic connect: An already paired Bluetooth device will automatically connect to the headset

TECHNICAL SPECIFICATIONS

RTX7451 EHS/USB BASE

DECT

- Frequency band:
  - 1880 – 1895 MHz (Taiwan)
  - 1880 – 1900 MHz (EMEA)
  - 1910 – 1920 MHz (Brazil & Uruguay)
  - 1910 – 1930 MHz (LATAM, Argentina, Chile)
  - 1920 – 1930 MHz (USA, Canada)
- Output Power:
  - 21 dBm (Uruguay, Canada, US, Malaysia, Jordan)
  - 22 dBm (Chile, Australia)
  - 24 dBm (Rest of the world)
- Sensitivity: -92 dBm
- Antenna: 2 for fast antenna diversity
- Range: 200m outdoor
- Security: Class C
- Encryption: AES256
- DECT Registration: Possible to remember 4 subscriptions, one primary and three secondary subscriptions.

AUDIO

- Narrowband audio: G.726, BV16
- Wideband audio (HD): G.722, BV32
- Music: 128 kbit/s CELT

DISPLAY

- Size: 2.4" 240x320 TFT
- Buttons: Scroll wheel (with an embedded key) and four keys

HARDWARE FEATURES

- Speaker
- USB C headset interface
- USB C charging terminals
- Spare battery charger
- Operating conditions: 0°C to 45°C

CALL FEATURES

- Call waiting
- Hold / Retrieve
- Supports 2 simultaneous calls (only one on hold)
- Call Conference
- Call Swap

SOFTWARE UPDATE

- Downloadable
- Air-interface

RTX Hong Kong Ltd, 8/F Corporation Square, 8 Lam Lok Street, Kowloon Bay, KLN, Hong Kong. P. +852 2487 3718
RTX A/S, Stroemmen 6, 9400 Noerresundby, Denmark, P. +45 9632 2300, F. +45 9632 2310, sales@rtx.dk, www.rtx.dk

Version no. 002

This document and the information contained is property of RTX A/S, Denmark. Unauthorized copying is not allowed. The information in this document is believed to be correct at the time of writing. RTX A/S reserves the right at any time to change said content, circuitry and specifications.