The connectBlue Bluetooth Dual-mode Access Point RBE221s is a complete Bluetooth Access Point which connects up to seven Bluetooth devices to the 10/100 Base-T Ethernet network. The RBE221 is suitable for tough applications where you need a robust and maintenance-free Bluetooth connection. Configuration is made easy via the SMART-button system, web interface or SNMP. The RBE221 features Low Emission Mode® which solves potential interference between Bluetooth and Wireless LAN that is not handled by Adaptive Frequency Hopping.

- Bluetooth v4.0 with low energy and Classic Bluetooth
- 7 simultaneous connected clients (including mix of low energy and Classic Bluetooth clients)
- Aggregated throughput of 1 Mbps
- Range up to 300 meters
- Ethernet interface 10/100Base-T
- Gateway for Bluetooth low energy
- Easy configuration either via SMART “button-push” method or via web configuration
- Low Emission Mode® - unique method to handle potential wireless interference
- Radio type approved for Europe, US, Japan and Canada
- Compliant with EMC, Safety and Medical standards
- UL/cUL Class 1 Div 2 Hazardous location certified
- DHCP server and client
- Configurable to optimize for Profinet
- External antenna with RPSMA connector
- Operating temperature range -30°C to +65°C
- Small form factor, 91x66x36 mm
Technical Data - Bluetooth Dual-mode Access Point RBE221s

**Wireless Standard**
Bluetooth low energy technology and Classic Bluetooth technology

**Standard Specification**
Bluetooth v4.0 with low energy and Classic Bluetooth (Qualified and Listed as Product)

Supported Bluetooth profiles and services:
- Personal Area Networking Profile (PAN) roles PANU & NAP
- Generic Bluetooth low energy GATT based services

**Radio, Chipset and Stack**
Approximate max range: 300 m
Max output power including antenna: 13 dBm
Radio: Texas Instruments CC2564
Stack: connectBlue Embedded Bluetooth Stack

**Type Approvals**
Europe (ETSI R&TTE)
US (FCC/CFR 47 part 15 unlicensed modular transmitter approval)
Canada (IC RSS)
Japan (MIC - formerly TELEC)
Hazardous location UL/cUL Class 1 Div 2

**Interface**
Ethernet Interface: 10/100BASE-T with automatic MDI/MDIX cross-over
External Input/Output: 9-30 V I/O pin to trigger configurable event, e.g. roaming

**Features**
Configurable via AT commands
Simple, push the button method & Web based configuration
Bluetooth low energy gateway for accessing any GATT service via web page or web application
IP
TCP
UDP
LLDP
HTTP
ARP
DHCP Client / Server
DNS support
SNMP
User management and access control
Profinet optimizations
Maximum number of slaves: 7 (possible to mix Bluetooth low energy and Classic Bluetooth clients)
connectBlue Low Emission Mode® for not disrupting other 2.4GHz radios
Simple Pairing
Quality of Service (QoS)

Use cases:
- Wireless Access Point (NAP)
- Wireless Ethernet Bridge
- Personal Area Network User (PANU)
- Gateway for Bluetooth low energy (GATT)

**Power**
Power supply voltage: 9 - 30 VDC
Current consumption (minimum): 35 mA @30V
Current consumption (average Tx): 43 mA @30V

**Connectors**
M12 connector for power supply and external trigger
M12 connector for Ethernet
RPSMA connector for the external antenna (antenna included)

**Mechanical**
Operating temperature: -30°C to +65°C
Mounting holes
Housing: Plastic
Dimensions: 91x66x36.2 mm (excluding antenna)

**Certifications and Compliance**
R&TTE Directive 1999/5/EC:
- Effective use of frequency spectrum: EN 300 328
- EMC: EN 301 489-1, EN 301 489-17, EN 61000-6-2
- Health and safety: EN 50371, EN 60950-1 and/or IEC 60950-1

**Article numbers**
For article number descriptions, please see www.connectblue.com

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**connectBlue**

The strongest connection in a wireless world

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