

# Wireless Sensor Endpoint

Bluetooth® Sensor Connectivity Solution

WSE-1140



## Connectivity

- Bluetooth® 5
- NFC
- 802.15.4

## Features

- Cortex M4F 32-bit application processor with 1MB flash memory / 256K RAM
- 4MB external flash memory
- LED indicator
- Lithium-Ion Polymer battery pack

## Sensors

- 9-axis Inertial Measurement Unit
- Gas
- Relative Humidity and Temperature
- Microphone





## Wireless Sensor Endpoint

### Bluetooth® Sensor Connectivity Solution

The PCTEL® Wireless Sensor Endpoint (WSE) family are versatile Industrial IoT products that offer multiple connectivity options including Bluetooth® 5, NFC as well as 802.15.4 support.

In addition, the PCTEL WSE family includes several sensors to monitor a variety of physical conditions. These sensors can detect temperature, relative humidity, acceleration, angular rate of change, magnetic field, and sound.

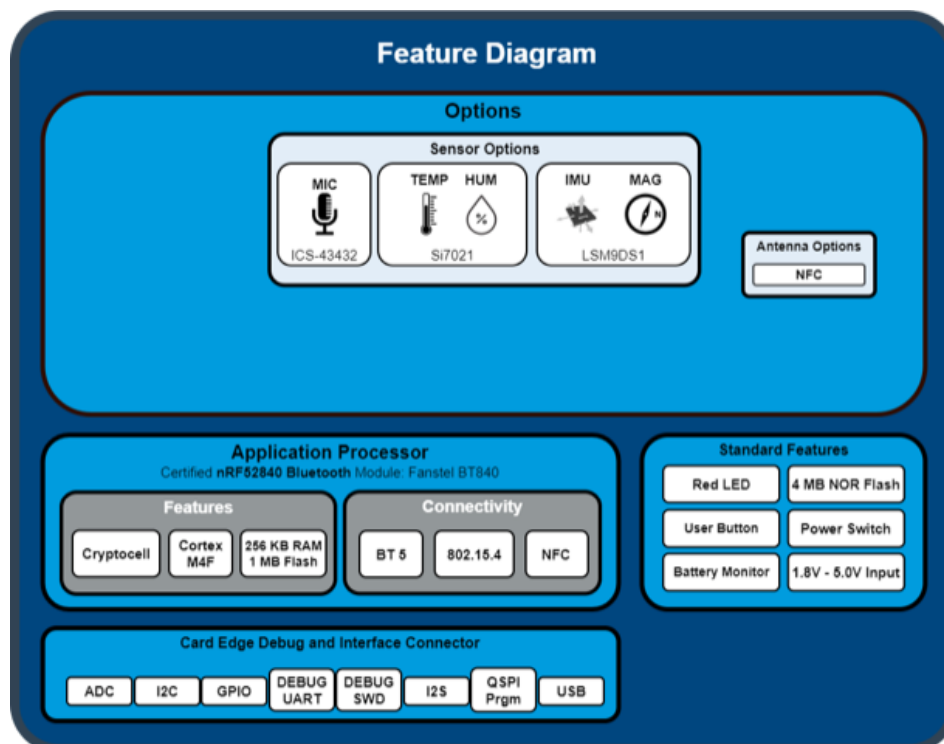
The PCTEL WSE is powered by a high capacity Lithium-Ion Polymer battery pack. The enclosure also has two mounting tabs for easy installation.

# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### Features and Benefits

| Feature                    | Benefit  |
|----------------------------|--|
| ARM Mbed Enabled           | Faster time to market leveraging ARM Mbed OS to accelerate application software development. |
| Internal Radio Antenna     | External antenna not necessary with embedded antenna.  |
| Rechargeable Battery Pack  | Easily recharge the battery via USB Micro-B connector.                                       |
| Mounting Tabs              | Enclosure with two integrated tabs for easy installation.                                    |
| Integrated Debug Interface | Ease of software development using the Wireless Sensor Development System.                   |
| Power Switch               | WSE can be turned on and off as needed.  |
| Push Button                | User defined operation.  |



# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### General Specifications

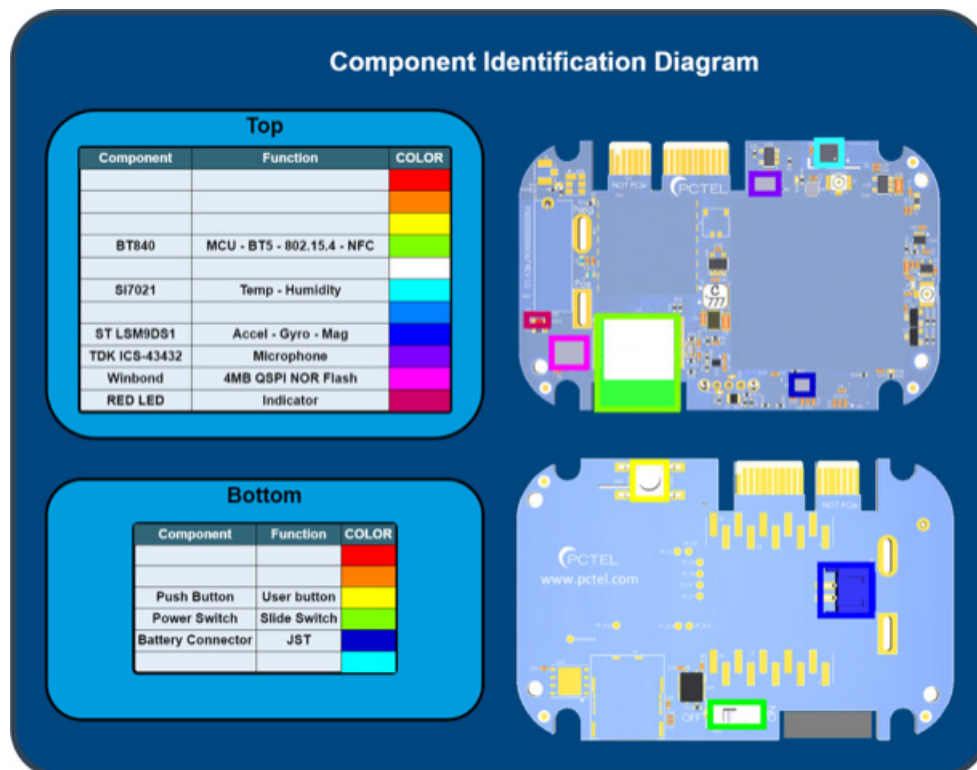
| Parameter             | Specification   |
|-----------------------|---|
| Operating Temperature | -20°C to +60°C  |
| Charging Temperature  | 0°C to +45°C  |
| Storage Temperature   | -20°C to +45°C (1-month)<br>-20°C to +35°C (6-months) |
| Battery Pack          | Li-Ion Polymer, 3.7V @ 4400mAh                        |
| Dimensions            | 60mm x 103mm x 43mm                                   |

### Sensor Specifications

| Device                           | Specification   |
|----------------------------------|---|
| Microphone                       | Frequency response: 50 Hz to 20 kHz<br>SNR: 65 dBA, Sensitivity -26 dB FS   |
| 9-Axis Inertial Measurement Unit | 3-axis Accelerometer: $\pm 2/\pm 4/\pm 8/\pm 16$ g (linear)<br>3-axis Angular rate: $\pm 245/\pm 500/\pm 2000$ dps<br>3-axis Magnetic position: $\pm 4/\pm 8/\pm 12/\pm 16$ gauss |
| Relative Humidity / Temperature  | $\pm 3\%$ RH (max) 0-80% RH / $\pm 0.4^\circ\text{C}$ (max) $-10^\circ\text{C}$ to $+85^\circ\text{C}$  |

# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution



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this product contact your  
sales representative or visit  
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### Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.

### Product Usage

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# Wireless Sensor Endpoint

Bluetooth® Sensor Connectivity Solution

WSE-1130



## Connectivity

- Bluetooth® 5
- NFC
- 802.15.4

## Features

- Cortex M4F 32-bit application processor with 1MB flash memory / 256K RAM
- 4MB external flash memory
- LED indicator
- Lithium-Ion Polymer battery pack

## Sensors

- 9-axis Inertial Measurement Unit
- Air Quality
- Gas
- Relative Humidity and Temperature
- Microphone





## Wireless Sensor Endpoint

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The PCTEL WSE is powered by a high capacity Lithium-Ion Polymer battery pack. The enclosure also has two mounting tabs for easy installation.

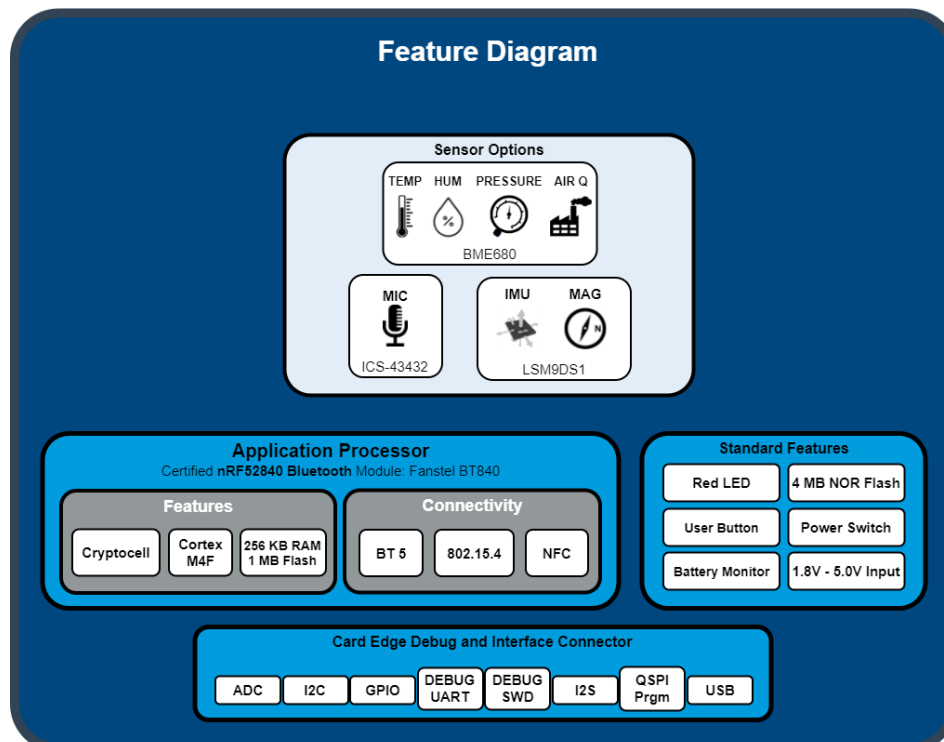


# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### Features and Benefits

| Feature                    | Benefit  |
|----------------------------|--|
| ARM Mbed Enabled           | Faster time to market leveraging ARM Mbed OS to accelerate application software development. |
| Internal Radio Antenna     | External antenna not necessary with embedded antenna.  |
| Rechargeable Battery Pack  | Easily recharge the battery via USB Micro-B connector.                                       |
| Mounting Tabs              | Enclosure with two integrated tabs for easy installation.                                    |
| Integrated Debug Interface | Ease of software development using the Wireless Sensor Development System.                   |
| Power Switch               | WSE can be turned on and off as needed.  |
| Push Button                | User defined operation.  |



# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### General Specifications

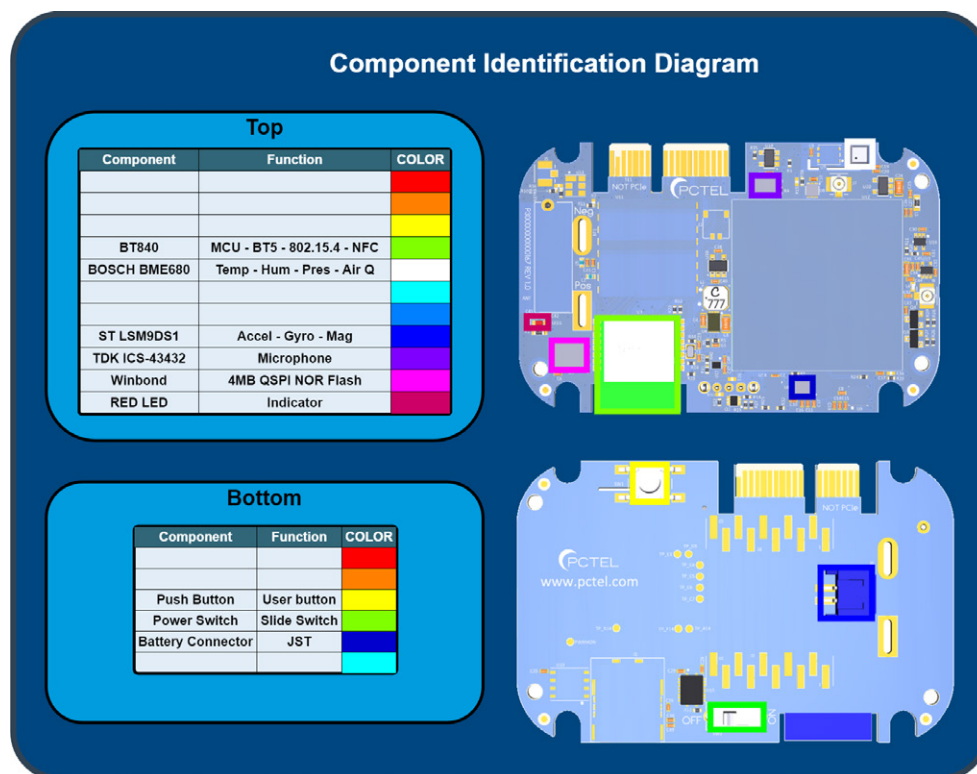
| Parameter             | Specification   |
|-----------------------|---|
| Operating Temperature | -20°C to +60°C  |
| Charging Temperature  | 0°C to +45°C  |
| Storage Temperature   | -20°C to +45°C (1-month)<br>-20°C to +35°C (6-months) |
| Battery Pack          | Li-Ion Polymer, 3.7V @ 4400mAh                        |
| Dimensions            | 60mm x 103mm x 43mm                                   |

### Sensor Specifications

| Device                           | Specification   |
|----------------------------------|---|
| Microphone                       | Frequency response: 50 Hz to 20 kHz<br>SNR: 65 dBA, Sensitivity -26 dB FS   |
| 9-Axis Inertial Measurement Unit | 3-axis Accelerometer: $\pm 2/\pm 4/\pm 8/\pm 16$ g (linear)<br>3-axis Angular rate: $\pm 245/\pm 500/\pm 2000$ dps<br>3-axis Magnetic position: $\pm 4/\pm 8/\pm 12/\pm 16$ gauss |
| Environmental Gas / Air Quality  | Gas (VOC): 20% tolerance; 5% accuracy   |
|                                  | Pressure: 300 to 1100 hPa ( $\pm 0.6$ hPa)  |
|                                  | Air Quality Score: 0 to 500 ( $\pm 15\%$ )  |
| Relative Humidity / Temperature  | $\pm 3\%$ RH (max) 0-80% RH / $\pm 0.4^\circ\text{C}$ (max) $-10^\circ\text{C}$ to $+85^\circ\text{C}$  |

# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution



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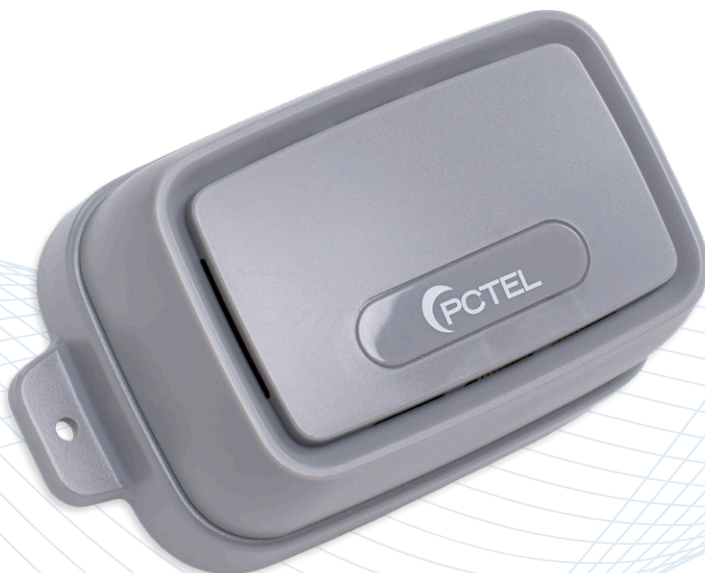
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# Wireless Sensor Endpoint

Bluetooth® Sensor Connectivity Solution

WSE-1120



## Connectivity

- Bluetooth® 5
- NFC
- 802.15.4

## Features

- Cortex M4F 32-bit application processor with 1MB flash memory / 256K RAM
- 4MB external flash memory
- LED indicator
- Lithium-Ion Polymer battery pack

## Sensors

- 6-axis Inertial Measurement Unit
- Relative Humidity and Temperature
- Microphone





## Wireless Sensor Endpoint

### Bluetooth® Sensor Connectivity Solution

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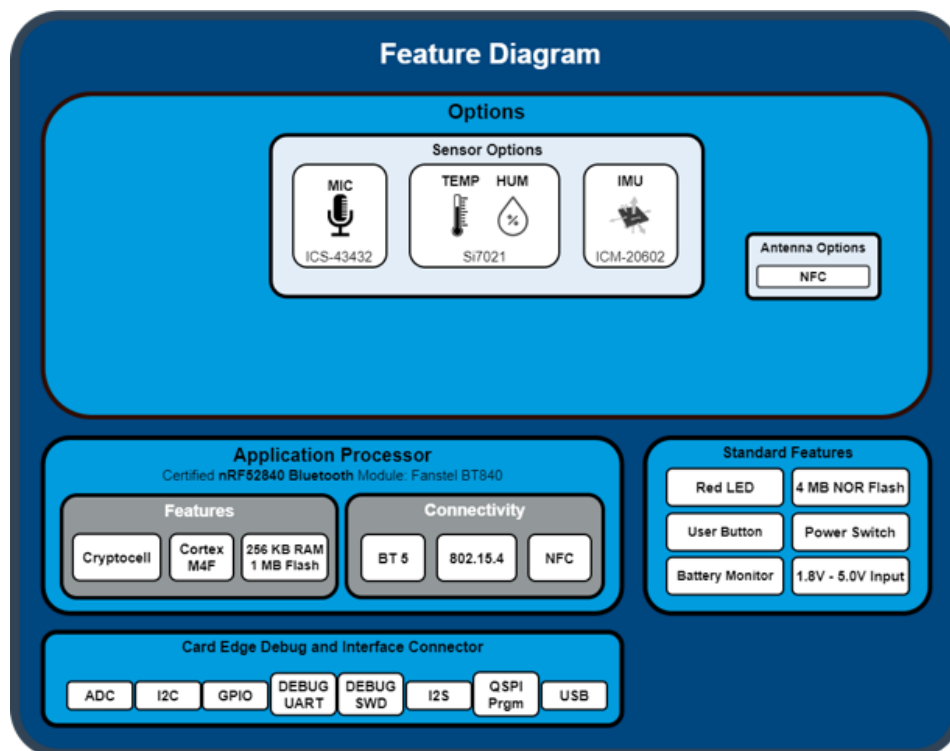
The PCTEL WSE is powered by a high capacity Lithium-Ion Polymer battery pack. The enclosure also has two mounting tabs for easy installation.

# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### Features and Benefits

| Feature                    | Benefit  |
|----------------------------|--|
| ARM Mbed Enabled           | Faster time to market leveraging ARM Mbed OS to accelerate application software development. |
| Internal Radio Antenna     | External antenna not necessary with embedded antenna.  |
| Rechargeable Battery Pack  | Easily recharge the battery via USB Micro-B connector.                                       |
| Mounting Tabs              | Enclosure with two integrated tabs for easy installation.                                    |
| Integrated Debug Interface | Ease of software development using the Wireless Sensor Development System.                   |
| Power Switch               | WSE can be turned on and off as needed.  |
| Push Button                | User defined operation.  |



# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### General Specifications

| Parameter             | Specification   |
|-----------------------|---|
| Operating Temperature | -20°C to +60°C  |
| Charging Temperature  | 0°C to +45°C  |
| Storage Temperature   | -20°C to +45°C (1-month)<br>-20°C to +35°C (6-months) |
| Battery Pack          | Li-Ion Polymer, 3.7V @ 4400mAh                        |
| Dimensions            | 60mm x 103mm x 43mm                                   |

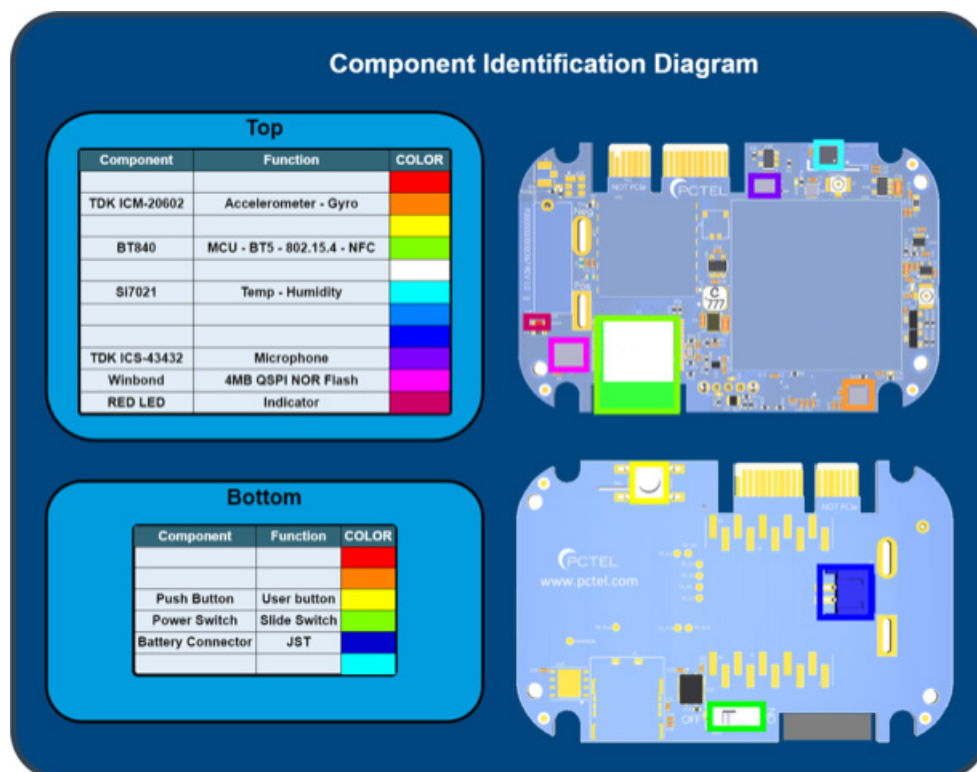
### Sensor Specifications

| Device                            | Specification  |
|-----------------------------------|--|
| Microphone                        | Frequency response: 50 Hz to 20 kHz<br>SNR: 65 dBA, Sensitivity -26 dB FS  |
| 6-Axis IMU Motion Tracking Device | 3-axis Accelerometer: $\pm 2/\pm 4/\pm 8/\pm 16$ g linear<br>3-axis Gyroscope: $\pm 250/\pm 500/\pm 1000/\pm 2000$ dps |
| Relative Humidity / Temperature   | $\pm 3\%$ RH (max) 0-80% RH / $\pm 0.4^\circ\text{C}$ (max) $-10^\circ\text{C}$ to $+85^\circ\text{C}$                 |



# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution



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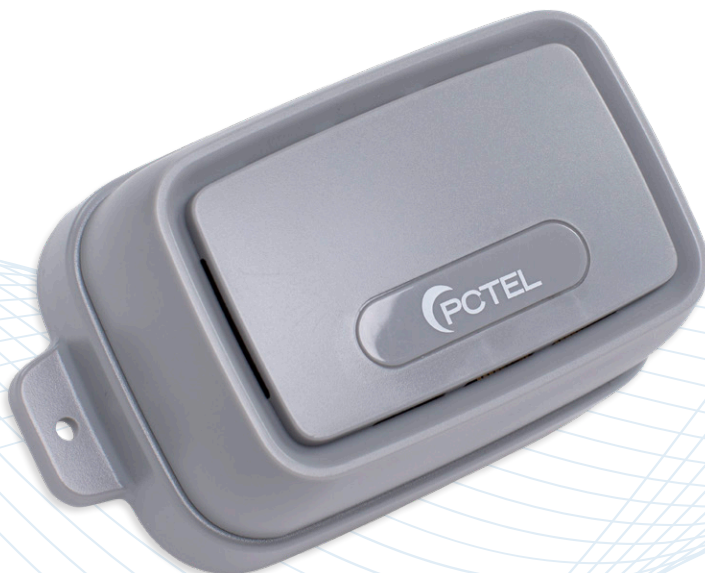
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# Wireless Sensor Endpoint

Bluetooth® Sensor Connectivity Solution

WSE-1110



## Connectivity

- Bluetooth® 5
- NFC
- 802.15.4

## Features

- Cortex M4F 32-bit application processor with 1MB flash memory / 256K RAM
- 4MB external flash memory
- LED indicator
- Lithium-Ion Polymer battery pack

## Sensors

- 6-axis Inertial Measurement Unit
- Air Quality
- Gas
- Pressure
- Humidity
- Temperature
- Microphone





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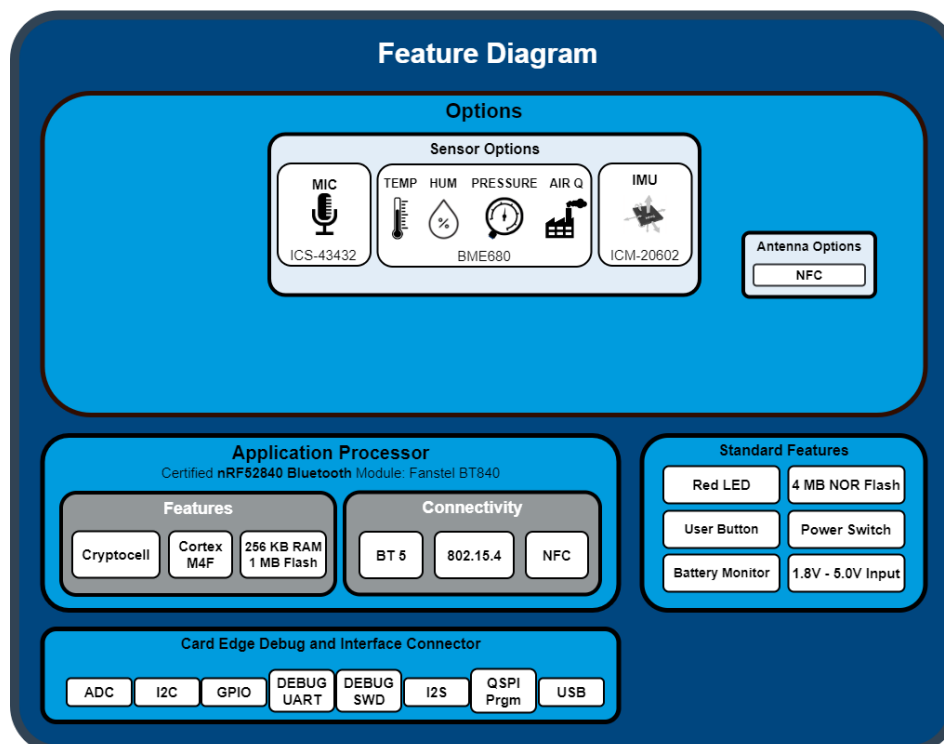
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# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution

### Features and Benefits

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|----------------------------|--|
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# Wireless Sensor Endpoint

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### General Specifications

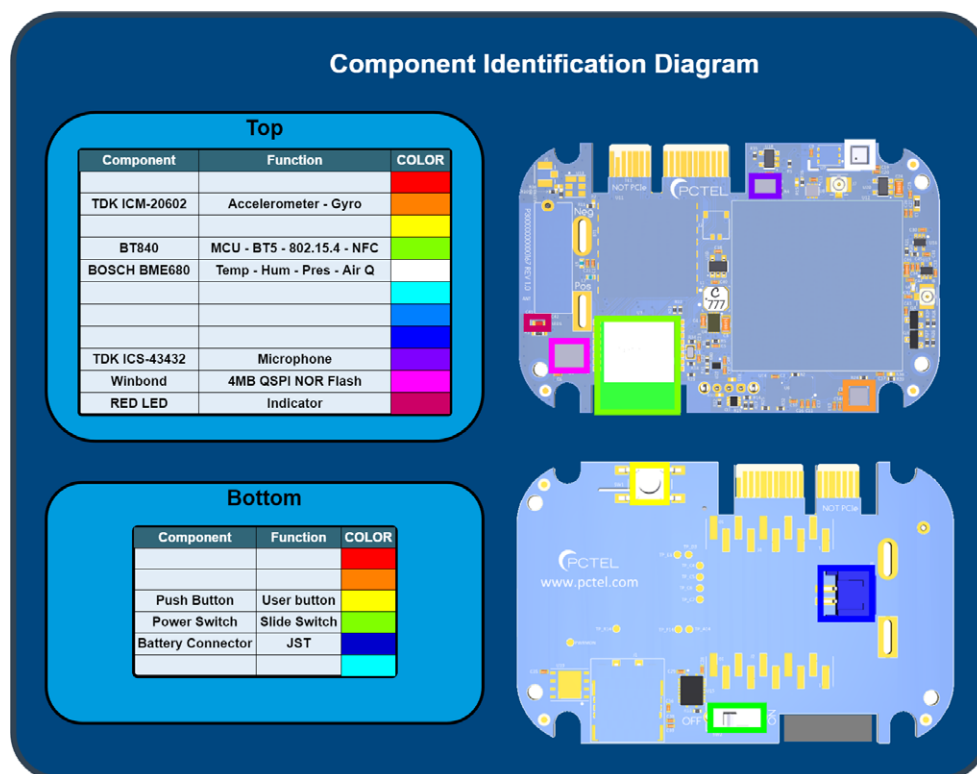
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| Environmental Gas / Air Quality   | Gas (VOC): 20% tolerance; 5% accuracy  |
|                                   | Pressure: 300 to 1100 hPa ( $\pm 0.6$ hPa)   |
|                                   | Humidity: 10% to 90% RH ( $\pm 3\%$ ) at 0°C to +65°C  |
|                                   | Temperature: -40°C to +85°C ( $\pm 1^\circ\text{C}$ ), 25°C ( $\pm 0.5^\circ\text{C}$ )                                |
|                                   | Air Quality Score: 0 to 500 ( $\pm 15\%$ )   |

# Wireless Sensor Endpoint

## Bluetooth® Sensor Connectivity Solution



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