

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





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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.

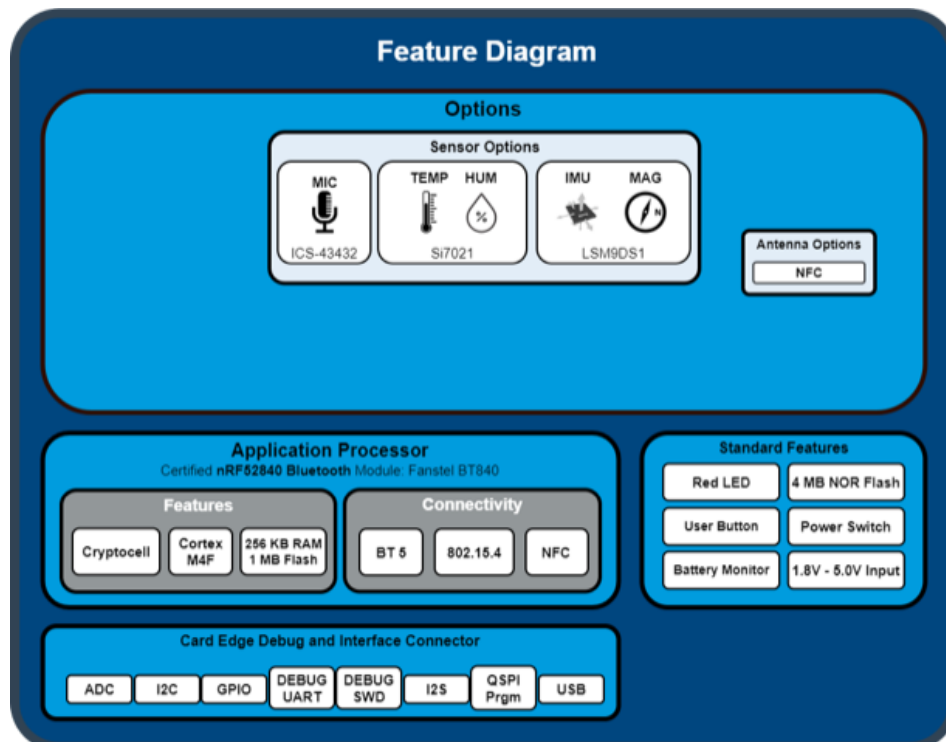
The PCTEL WSE is powered by a high capacity Lithium-Ion Polymer battery pack. The enclosure also has two mounting tabs for easy installation.

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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.



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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) -20°C to +35°C (6-months)
Battery Pack	Li-Ion Polymer, 3.7V @ 4400mAh
Dimensions	60mm x 103mm x 43mm

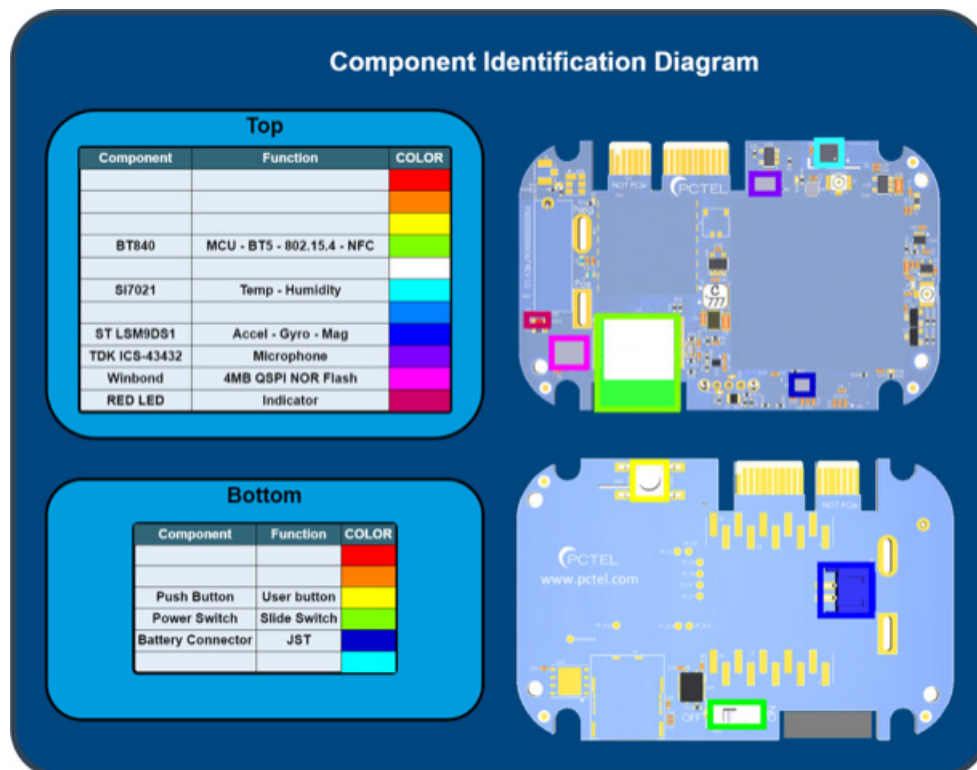
Sensor Specifications

Device	Specification
Microphone	Frequency response: 50 Hz to 20 kHz 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) 3-axis Angular rate: $\pm 245/\pm 500/\pm 2000$ dps 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°C to +85°C



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Solving Complex Wireless Challenges

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Product Usage

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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
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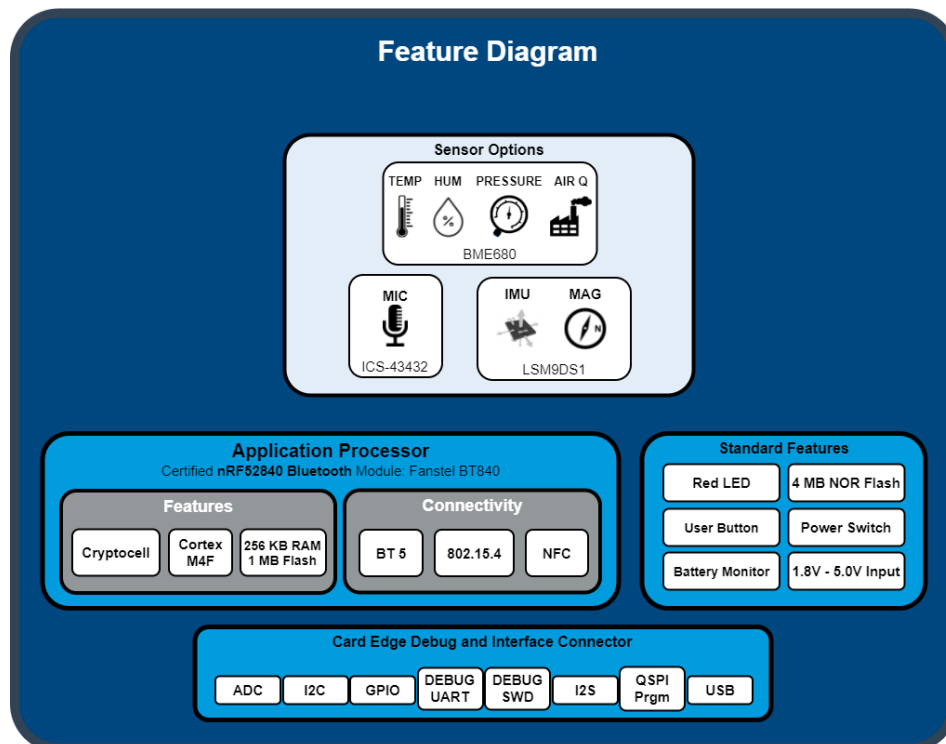
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Features and Benefits

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

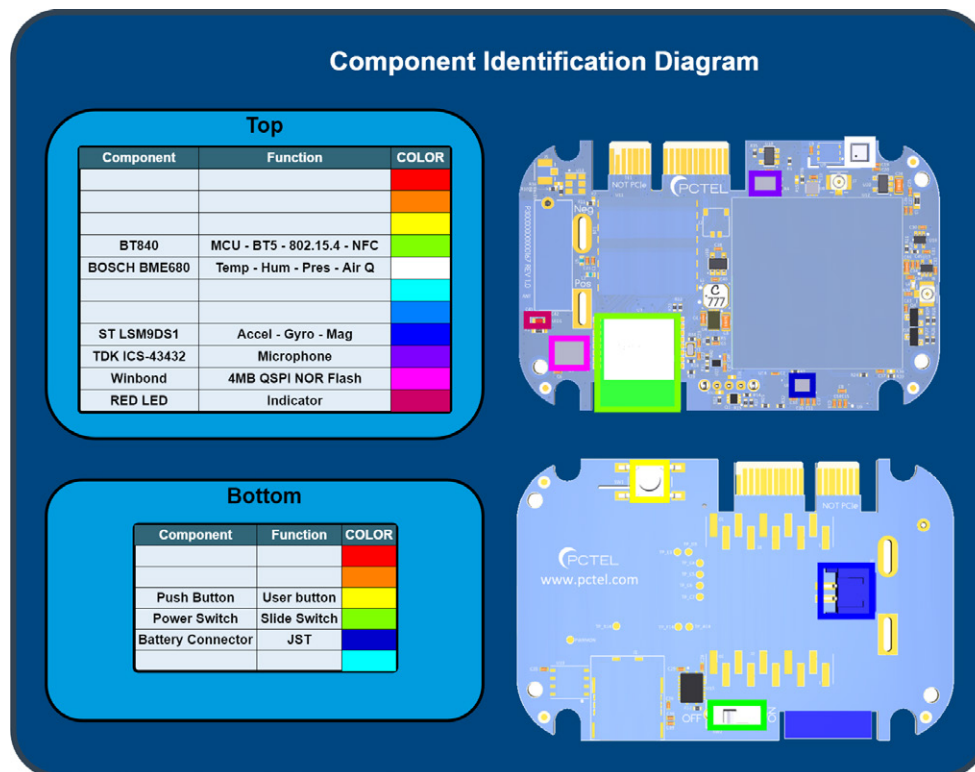
Sensor Specifications

Device	Specification
Microphone	Frequency response: 50 Hz to 20 kHz 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) 3-axis Angular rate: $\pm 245/\pm 500/\pm 2000$ dps 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 (± 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°C to $+85^\circ\text{C}$



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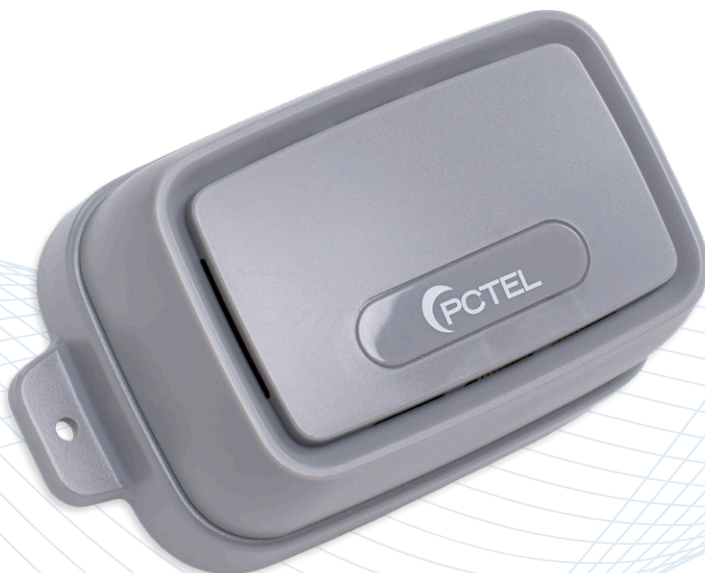


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Wireless Sensor Endpoint

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





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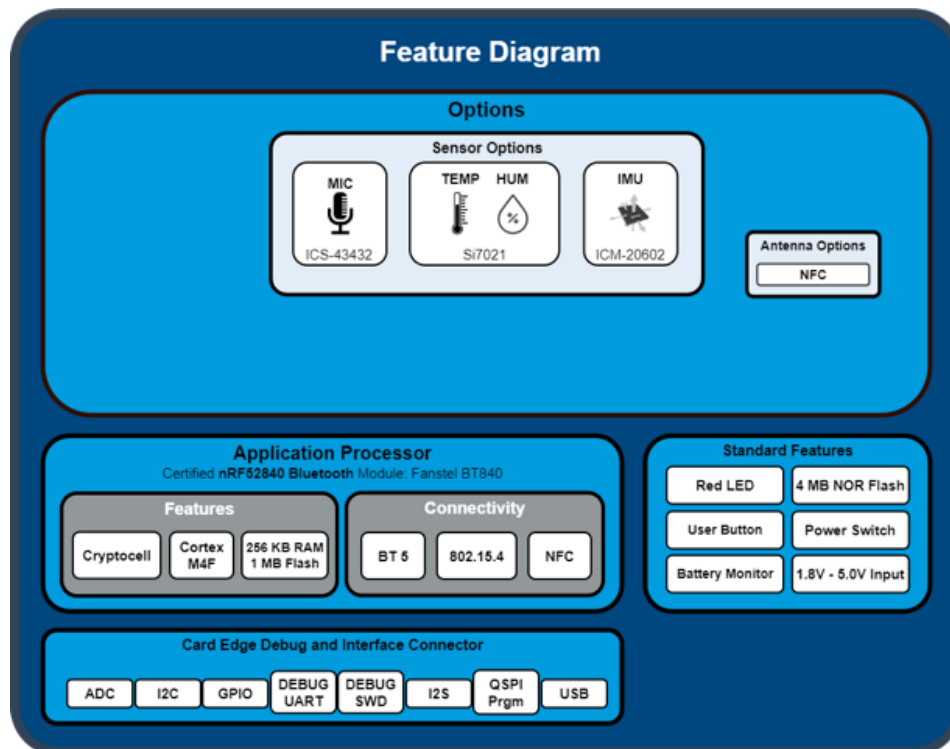
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Battery Pack	Li-Ion Polymer, 3.7V @ 4400mAh
Dimensions	60mm x 103mm x 43mm

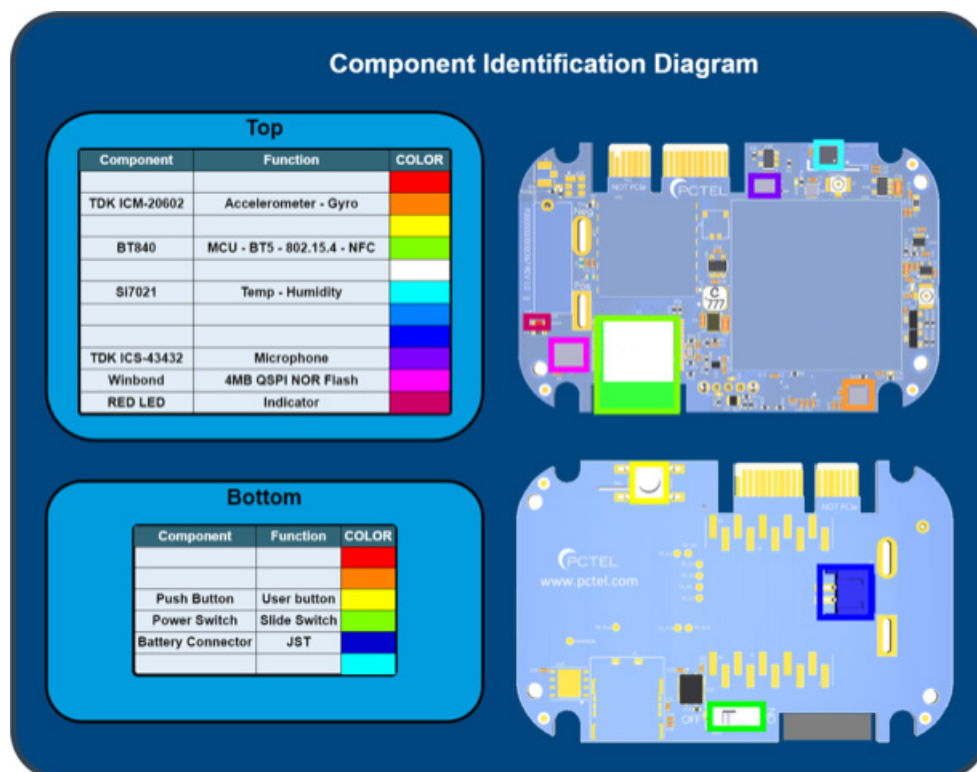
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Device	Specification
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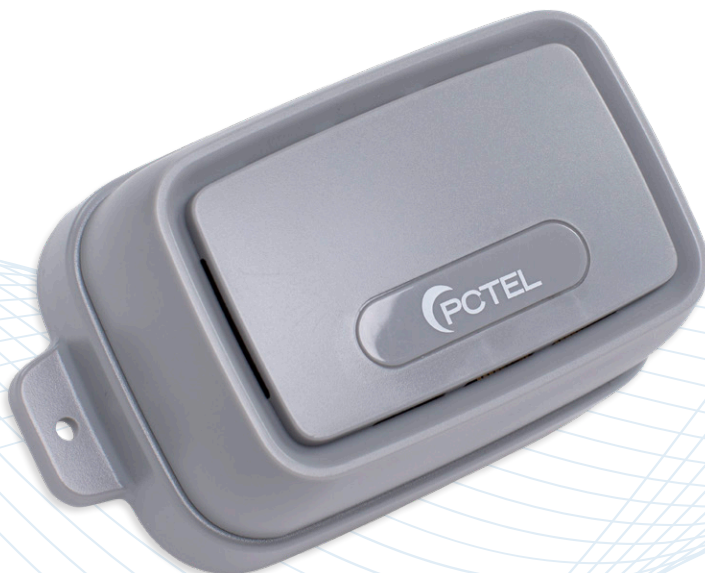


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Wireless Sensor Endpoint

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WSE-1110



Connectivity

- Bluetooth® 5
- NFC
- 802.15.4

Features

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- 4MB external flash memory
- LED indicator
- Lithium-Ion Polymer battery pack

Sensors

- 6-axis Inertial Measurement Unit
- Air Quality
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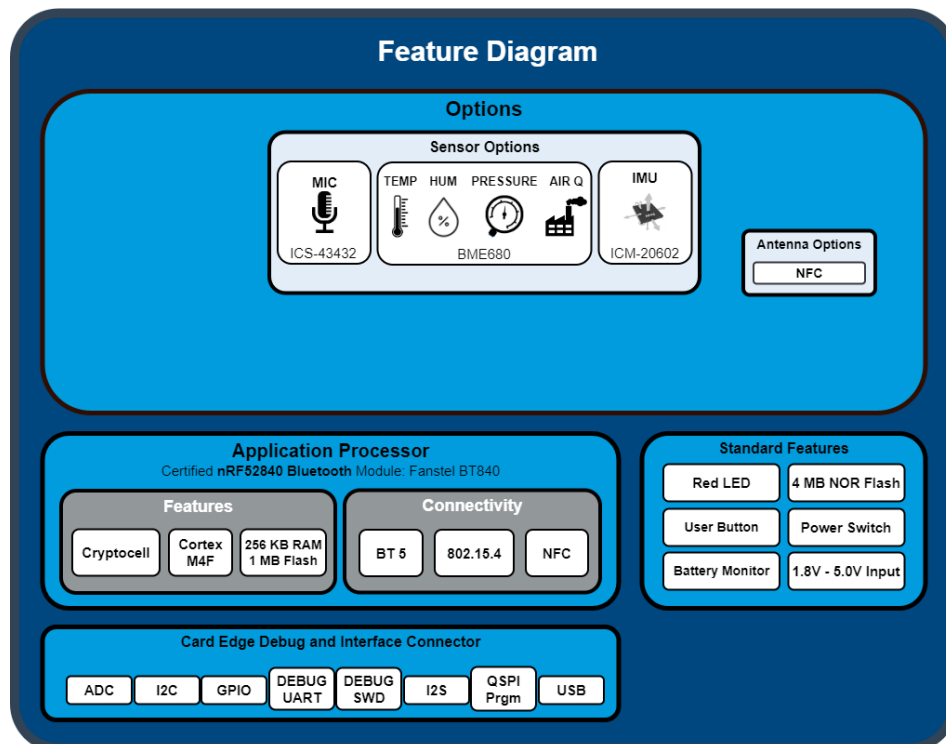


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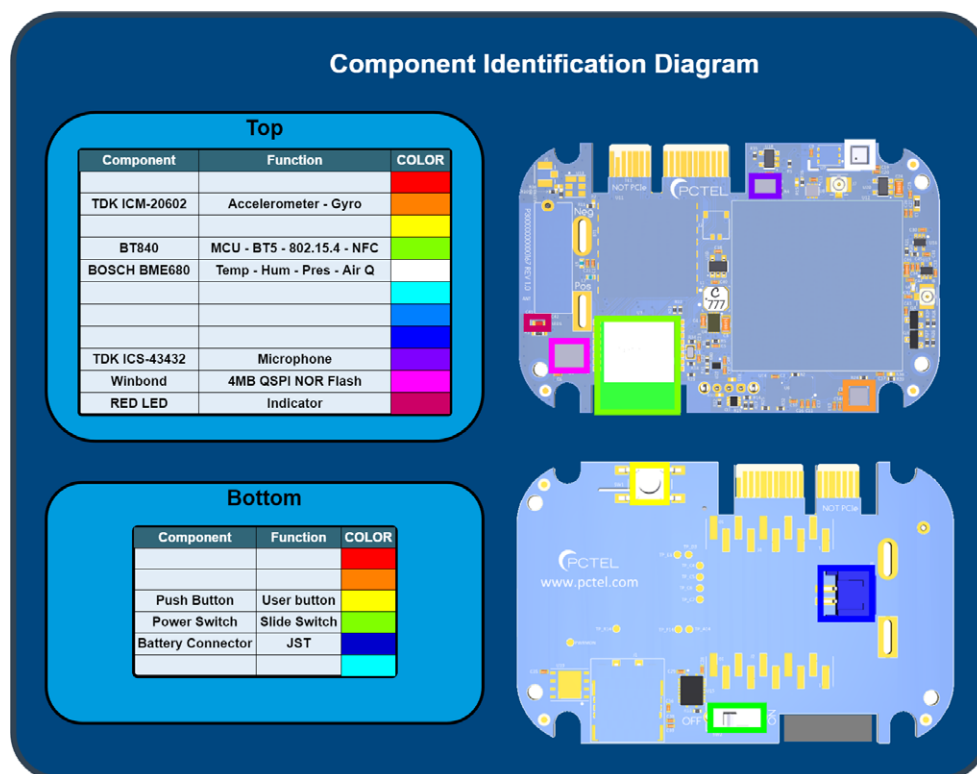
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Environmental Gas / Air Quality	Gas (VOC): 20% tolerance; 5% accuracy
	Pressure: 300 to 1100 hPa (± 0.6 hPa)
	Humidity: 10% to 90% RH ($\pm 3\%$) at 0°C to +65°C
	Temperature: -40°C to +85°C ($\pm 1^\circ\text{C}$), 25°C ($\pm 0.5^\circ\text{C}$)
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



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