SenseAbility 2.0

Data is the new currency. IoT the new frontier. And high-performance wireless networks the key to a data-driven IoT world. As the eyes and ears of every Intelligent System, the demand for faster, smarter, streamlined edge-to-enterprise solutions with modular connectivity and peripherals grows exponentially each day. To help you meet these growing needs with success, Arrow, Cypress and Honeywell have created a roadmap for building winning IoT-connected technology — SenseAbility 2.0, a Universal Wireless Sensor Solution (UWSS).

Proof in Performance

Showcasing best-in-class technology, SenseAbility 2.0 allows you to explore sensor options in action so you can effectively analyze performance and select proven solutions for your next design. Uniquely crafted, this flexible, relevant tool accommodates a vast portfolio of sensor node types and expansion peripherals to meet the needs of the IoT marketplace.

Features for today. Flexibility for tomorrow.

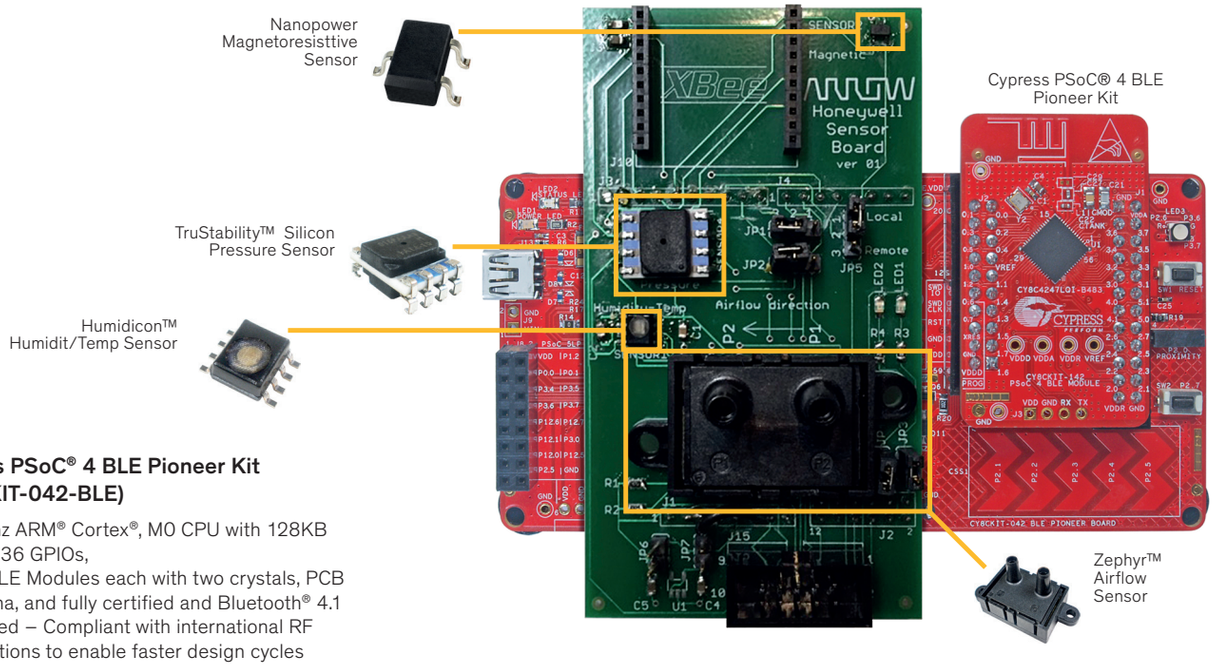
- **High performance. Low power** — Honeywell's magnetoresistive sensor, humidity and temperature, flow and pressure sensors offer sensitivity, reliability, accuracy and efficiency.
- **Versatile configurability** — Features Cypress PSoC® 4 BLE Pioneer Kit, a highly configurable SoC architecture equipped with Bluetooth Low Energy (BLE) protocol
- **Connectivity simplified** — Supports a variety of add-ons such as, LoRa, 802.11 and cellular

Request Your Demo

To see what a SenseAbility 2.0 can do for your next design, contact your Arrow representative, email **senseability@arrow.com** for more information.

Featured Honeywell Sensors (see reverse for detailed information on each)		Part #
	Nanopower Magnetoresistive Sensor	**SM351LT**
	Honeywell Humidicon™ — Humidity/Temperature Sensor	**HIH6131-021-001**
	Zephyr™ — Airflow Sensor	**HAFBLF0200C4AX3**
	TruStability™ — Silicon Pressure Sensor	**HSCMNNN001BA3A3**
Cypress Technology (see reverse for details)		**Part #**
	The PSoC® 4 BLE Pioneer Kit	**CY8CKIT-042-BLE**

The Technology Inside



Cypress PSoC® 4 BLE Pioneer Kit (CY8CKIT-042-BLE)

- 48Mhz ARM® Cortex®, M0 CPU with 128KB Flash, 36 GPIOs,
- Two BLE Modules each with two crystals, PCB antenna, and fully certified and Bluetooth® 4.1 qualified – Compliant with international RF regulations to enable faster design cycles
  - PSoC4 Module with Configurable analog and digital blocks, CapSense and an integrated Bluetooth® Low Energy radio
  - PRoCTM BLE Module with CapSense and an integrated Bluetooth® Low Energy radio
- World Leading CapSense with SmartSense Auto Tuning
- Programmable analog, digital and output routing for design changes without PCB changes
- PSoC Creator includes over 100 predefined/ tested PSoC Components and allows you to create your own custom functions
- On-board RGB LED, CapSense slider and proximity header
- User-button, 3.3V coin-cell battery holder
- 1-Mbit Cypress F-RAM device
- Headers for Arduino shields and Diligent Pmods enables variety of third part modules
- Built-in programmer and debugger
- CYSmart USB dongle with BLE for debugging BLE designs with a powerful Windows GUI

Honeywell Nanopower Magnetoresistive Sensor ICs (SM351LT)

- Wide range of applications
- Ultra-sensitivity with large air gaps, small magnetic fields and low power requirements
- North or South polarity identification simplifies installation and reduces costs
- Supply voltage as low as 1.65V promotes energy efficiency
- Available in two magnetic sensitivities each with a very low current draw (360 nA typ.)
  - SM351LT: For ultra-high magnetic sensitivity (7G typ./11G max.)
  - SM353LT: For very high magnetic sensitivity (14G typ./20G max.)
- Supplied in the subminiature SOT-23 surface-mount package on tape and reel

TruStability™ — Silicon Pressure Sensor, HSC (High Accuracy Silicon Ceramic) Series (HSCMNNN001BA3A3)

- High accuracy, compensated/amplified board mount pressure sensors for air and dry gases
- ±1.6 mbar to ±10 bar | ±160 Pa to ±1 MPa | ±0.5 in H2O to ±150 psi
- Piezoresistive silicon pressure sensor offers ratiometric analog or digital output
- Fully calibrated and temperature compensated over the temperature range of 0 °C to +50 °C
- On-board ASIC compensates for sensor offset, sensitivity, temperature effects and non-linearity
- Operates from a single power supply of either 3.3 Vdc or 5.0 Vdc
- Measures absolute, gage or differential pressures
- Options for non-corrosive, non-ionic liquids
- Meets ISO 9001 standards

Honeywell HumidIcon™ Humidity/ Temperature Sensors, HIH6100 Series (HIH6131-021-001)

- Superior ±4.0 %RH Accuracy | ±0.5 °C Temperature Accuracy
- Digital output relative humidity (RH) and temperature sensors in the same package
- Industry-leading long-term stability, reliability and Total Error Band (TEB)
- True temperature-compensated digital I2C or SPI output
- Energy efficient, low cost, ultra-small package
- Other accuracies available

Honeywell Zephyr™ Airflow Sensors, HAF Series (HAFBLF0200C4AX3)

- High accuracy ±50 SCCM to ±750 SCCM (Custom flow ranges also available)
- Monitors mass flow of air and other non-corrosive gases
- Thermally isolated heater and temperature sensing elements provide fast response
- Compensates across a range of 0 °C to +50 °C and operates across a range of -20 °C to +70 °C
- State-of-the-art ASIC-based compensation for analog outputs response times of 1 ms
- Micro-bridge Microelectronic and MEMS provide repeatable response to flow
- Enhanced reliability, accuracy and durability while meeting ISO 9001 standards

In Person
800 833 3557

Online
parts.arrow.com

Five Years Out