



# ST is colourful.

Discover their broad portfolio of analog products with application examples.



[www.ebv.com/st-analog](http://www.ebv.com/st-analog)



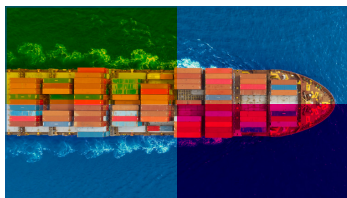
# Which Analog products match with your applications?

STMicroelectronics offers a wide analog portfolio of general purpose and application specific products for Power & Energy Management, Motor Control, Factory Automation and Connectivity, amongst others, all dedicated to the challenging Industrial, Automotive and Consumer markets.

The variety of products include Power Management ICs, Interfaces and Operational Amplifiers and Comparators, as well as highly integrated Motor Drivers, industrial Communication ICs and Intelligent Power Switches.

Together with ST, our technical experts at EBV have put together a selection of nine block diagrams, covering six application areas, along with informative technical articles.

Click on your area of application below



**Asset Tracking**



**Factory Automation - Smart Sensor Nodes (wired/wireless)**



**Factory Automation - PLC Control Unit and I/Os**



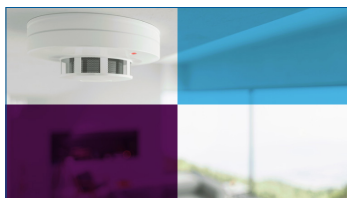
**Instrumentation & Test**



**Motion Control Drive - Discrete Approach**



**Building Control HMI**



**Building Alarms - Fire Alarm, Smoke Detector, PIR**

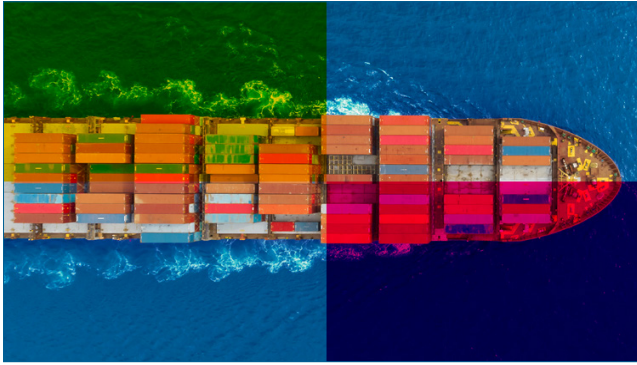


**Small Appliance - Food Processor**



**Small Appliance - Coffee Machine**

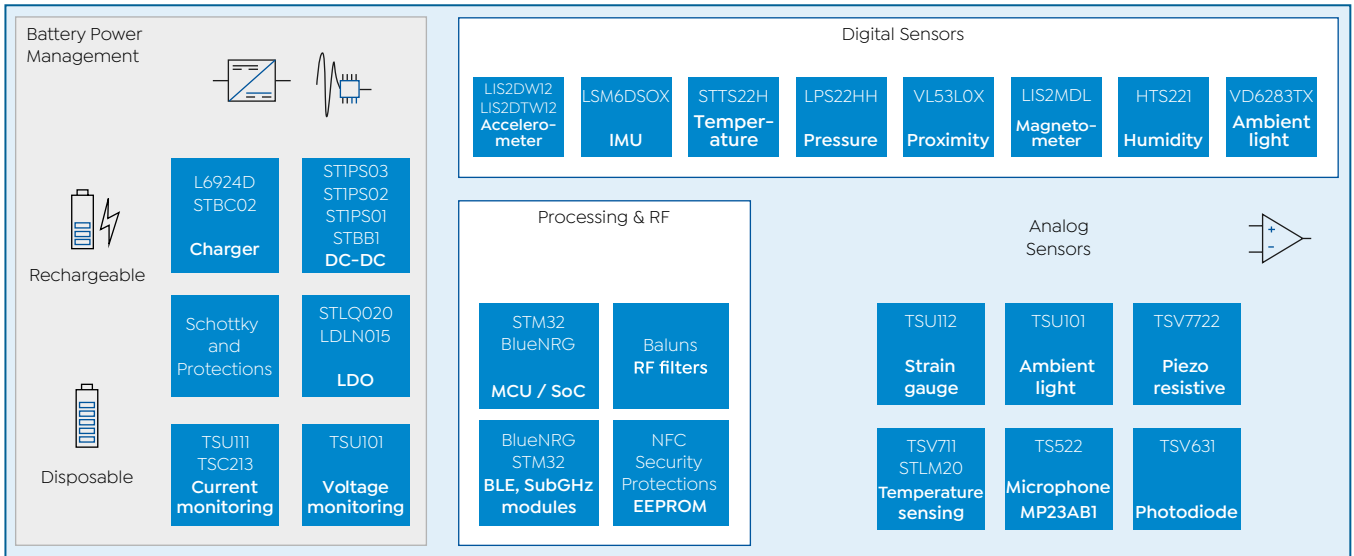
## Asset Tracking



In global manufacturing and commerce, raw materials, components and final goods can travel long distances through warehouses and logistic hubs before arriving at their final destination.

More often than not, the direct or indirect value of any particular item warrants certain costs associated with monitoring its condition and position.

**Learn all about ST's product offering for Asset Tracking by clicking on the relevant part numbers in the diagram below.**



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**New Article:** Analog and power management considerations for low power asset tracker design.

By Milan Ivkovic

[Click here to read](#)

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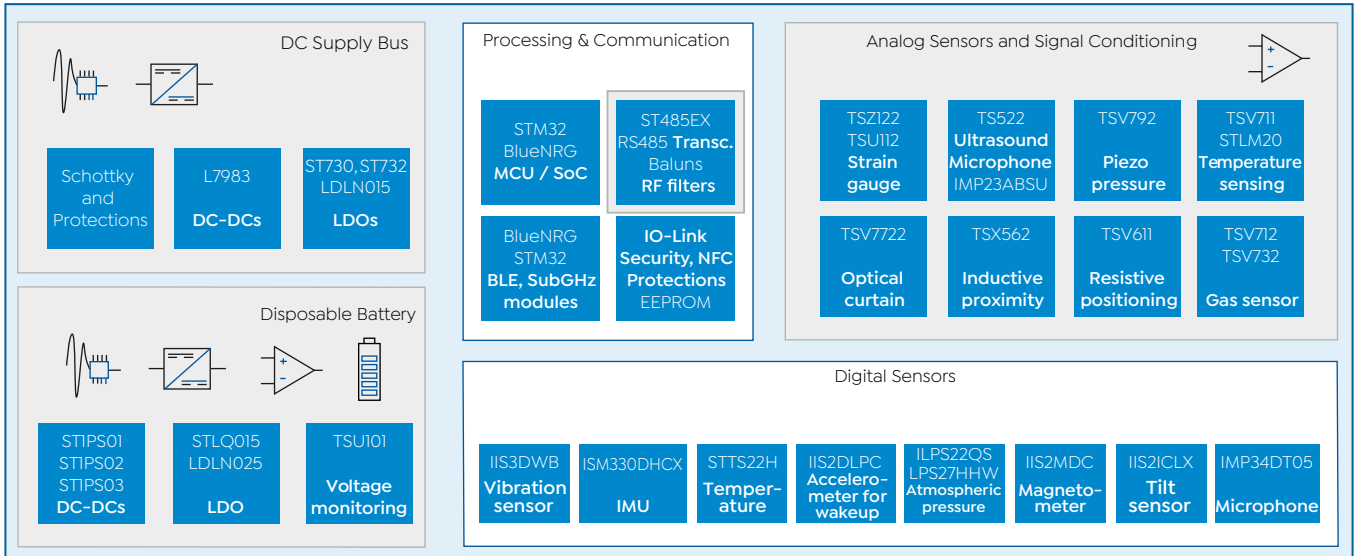
## Factory Automation - Smart Sensor Nodes (wired / wireless)



Smart sensor nodes are key enablers of automation and smart industry applications on modern factory floors.

In the context of condition-based monitoring and predictive maintenance, Smart Sensor Node is based on sensing elements, MCU or MCU SoC connectivity and transceiver and power management which requirements depend upon the application use case.

**Learn all about ST's product offering for Factory Automation - Smart Sensor Nodes (wired / wireless) by clicking on the relevant part numbers in the diagram below.**



**New Article:**  
By Milan Ivkovic

Choosing analog sensor and power management components for factory automation smart sensor nodes

[Click here to read](#)



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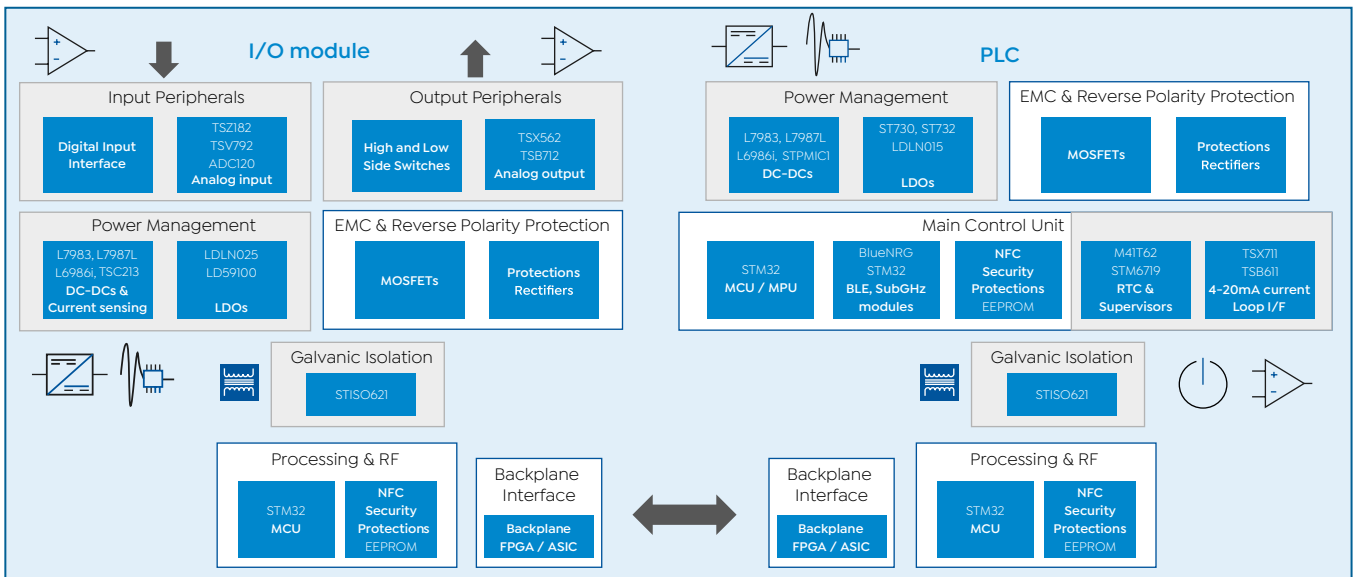
## Factory Automation - PLC Control Unit and I/Os



The PLC Control Unit in a Programmable Logic Controller (PLC) is the main building block which processes data coming from input devices and controls outputs. It can be integrated with I/O modules to provide the required functionalities.

The PLC control unit also enables connectivity to various fieldbuses including PROFIBUS, Modbus and CAN open, industrial Ethernet such as Profinet, EtherCAT, wireless technologies and to the backplane bus of the system.

**Learn all about ST's product offering for Factory Automation - PLC Control Unit and I/Os by clicking on the relevant part numbers in the diagram below.**



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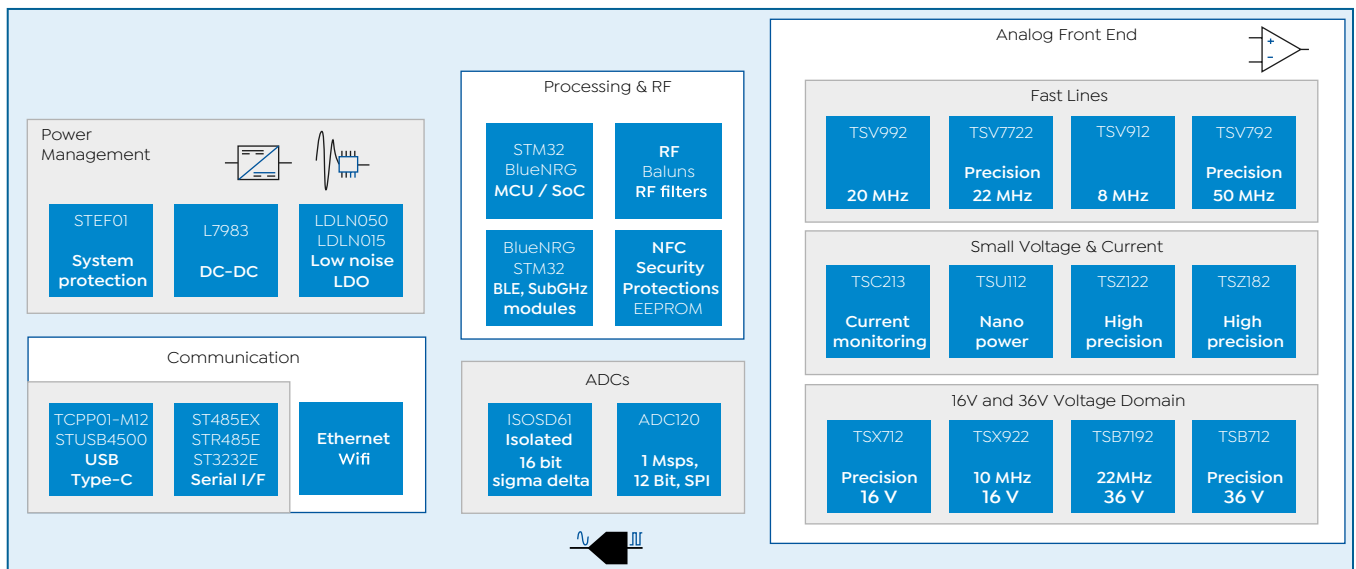
## Instrumentation & Test



Medical equipment for therapy and diagnostics are very often complex computer-controlled, electro-mechanical systems that rely on advanced semiconductor technologies and components to help deliver healthcare in hospitals and doctor offices as well as in homes.

In addition to being able to measure vital signs and other readings, today's medical and healthcare devices must be able to deliver the high power required to supply magnetic resonance imagery or generate the precise high-voltage high-frequency pulses found in ultrasound equipment.

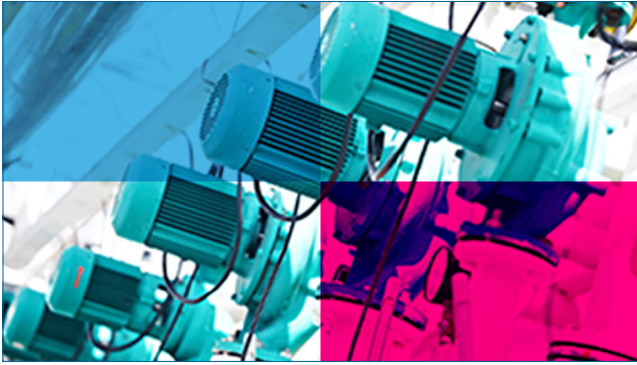
**Learn all about ST's product offering for Instrumentation & Test by clicking on the relevant part numbers in the diagram below.**



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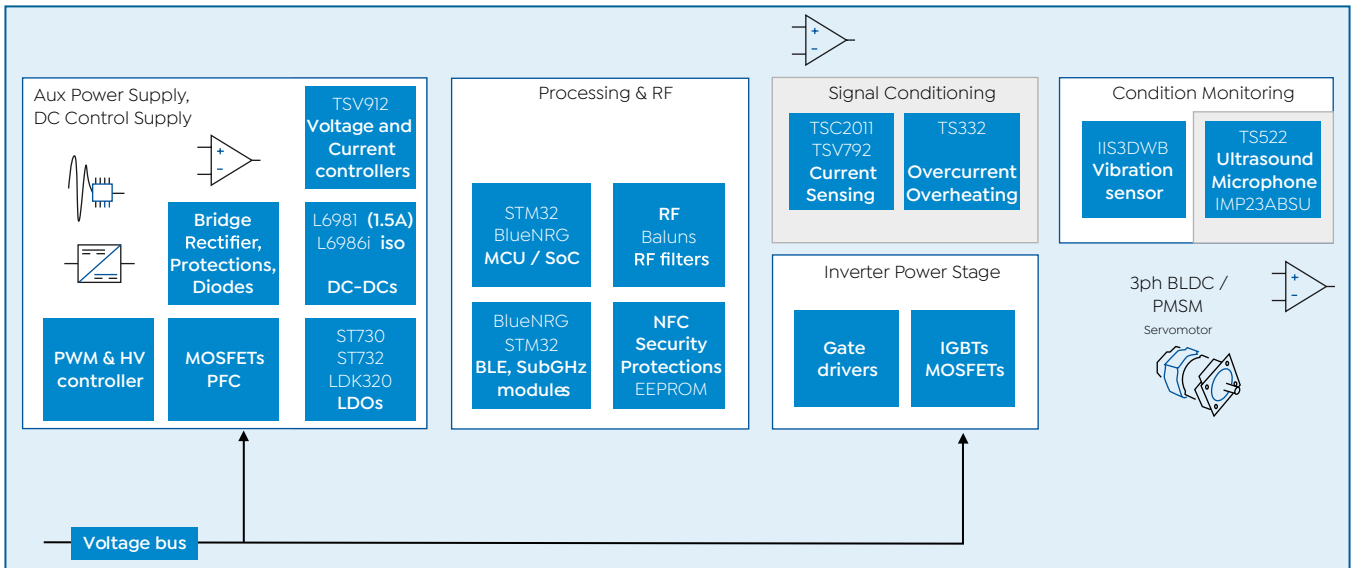
## Motion Control Drive - Discrete Approach



In line with the environmental revolution, electric motor control is moving very quickly in the direction of higher efficiency for industrial motors and drives.

Moreover, an increased level of integration at the lowest cost is required to support market penetration of new technology as well as increased safety and reliability. Committed to industrial motor control for more than 20 years, ST was among the first to recognize these trends.

**Learn all about ST's product offering for Motion Control Drive - Discrete Approach by clicking on the relevant part numbers in the diagram below.**



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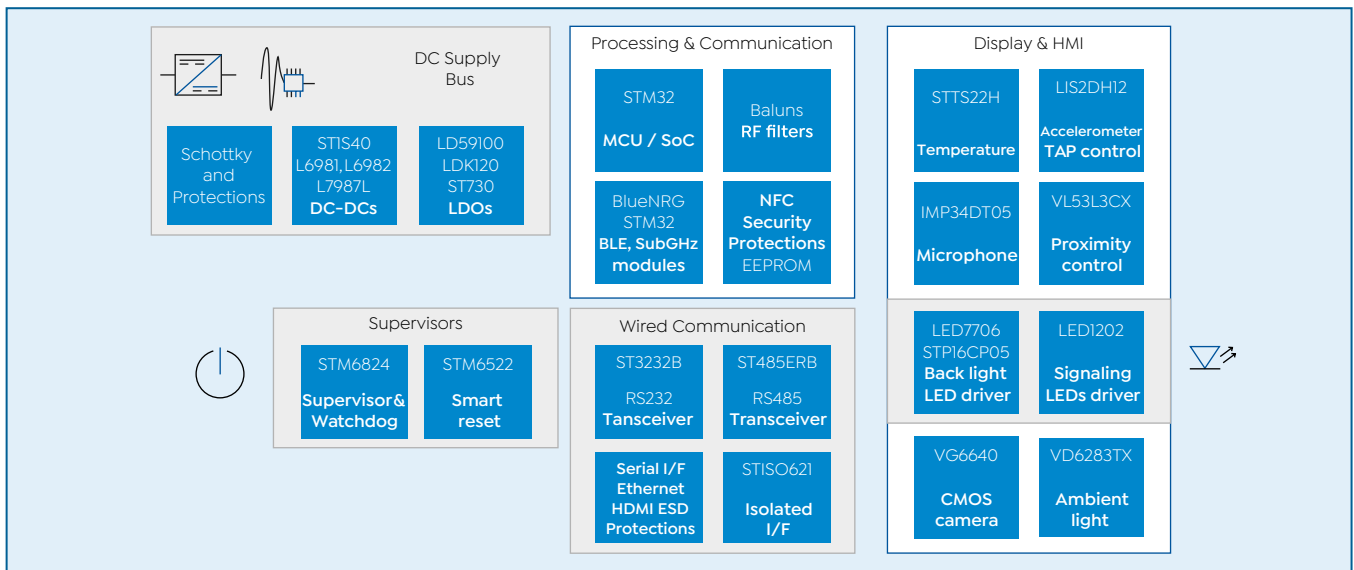
## Building Control HMI



To help us effectively control equipment as well as make decisions based on machine feedback, we use a Human Machine Interface (HMI) which can be a simple display directly assembled on a machine for factory automation or multi-touch display panels for controlling an entire production line.

We provide a range of DC-DC switching and linear voltage regulators, high-performance STM32 microcontrollers and wired – including transceivers for different fieldbuses and RS232, RS485 and CAN – and wireless – including Bluetooth, Sub1GHz, LoRa – solutions together with protection devices and EEPROM to help build robust HMI solutions.

Learn all about ST's product offering for Building Control HMI by clicking on the relevant part numbers in the diagram below.



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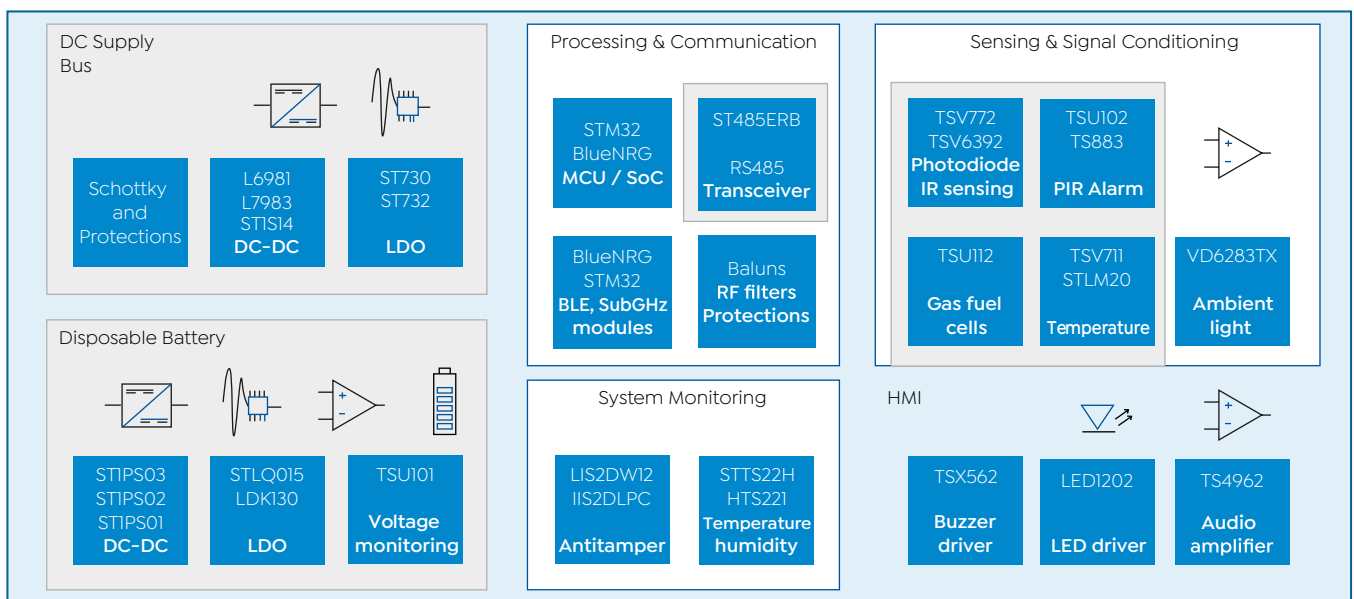
## Building Alarms - Fire Alarm, Smoke Detector, PIR



Inside any building and home, fire alarm and smoke detectors systems are vital safety feature. They becoming more sophisticated, incorporating more sensors to detect not only smoke and fire but also monitoring the quality of the air.

These devices can alert individuals and authorities quicker, reducing the alert time and avoid property damage and casualties and they are dependent on very low power as high power means higher costs and more frequent maintenance both in a residential home and in a commercial building.

Learn all about ST's product offering for Building Alarms Fire Alarm, Smoke Detector, PIR by clicking on the relevant part numbers in the diagram below.



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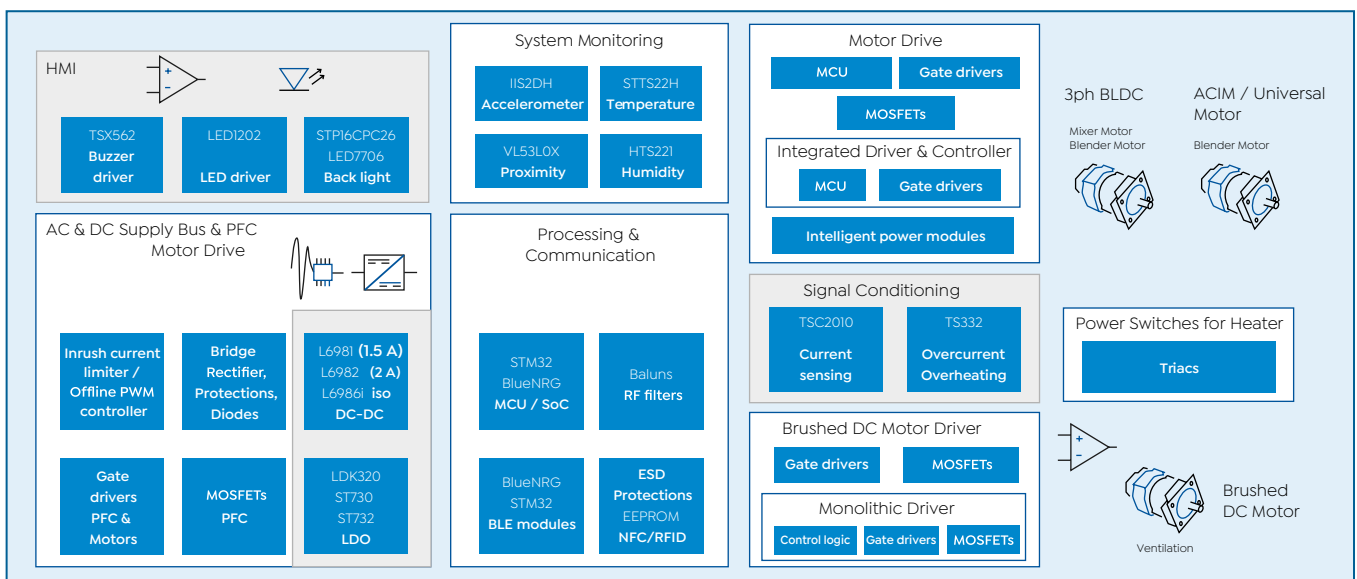
## Small Appliance - Food Processor



Multifunction food processors, or robot kitchen aids, perform a set of functions including mincing, chopping, and grating vegetables, extracting juice and cutting or grinding fish and meats, and some can also mix and cook to complete a recipe to perfection.

ST offers devices ideal for the design of these appliances, with a broad range of temperature, humidity and pressure sensors, along with advanced motor control solutions that include triacs, power MOSFETs and gate drivers, integrated STSPIN motor driver and STM32 microcontrollers, as well as specifically-designed IGBTs for induction heating.

Learn all about ST's product offering for Small Appliance Food Processor by clicking on the relevant part numbers in the diagram.



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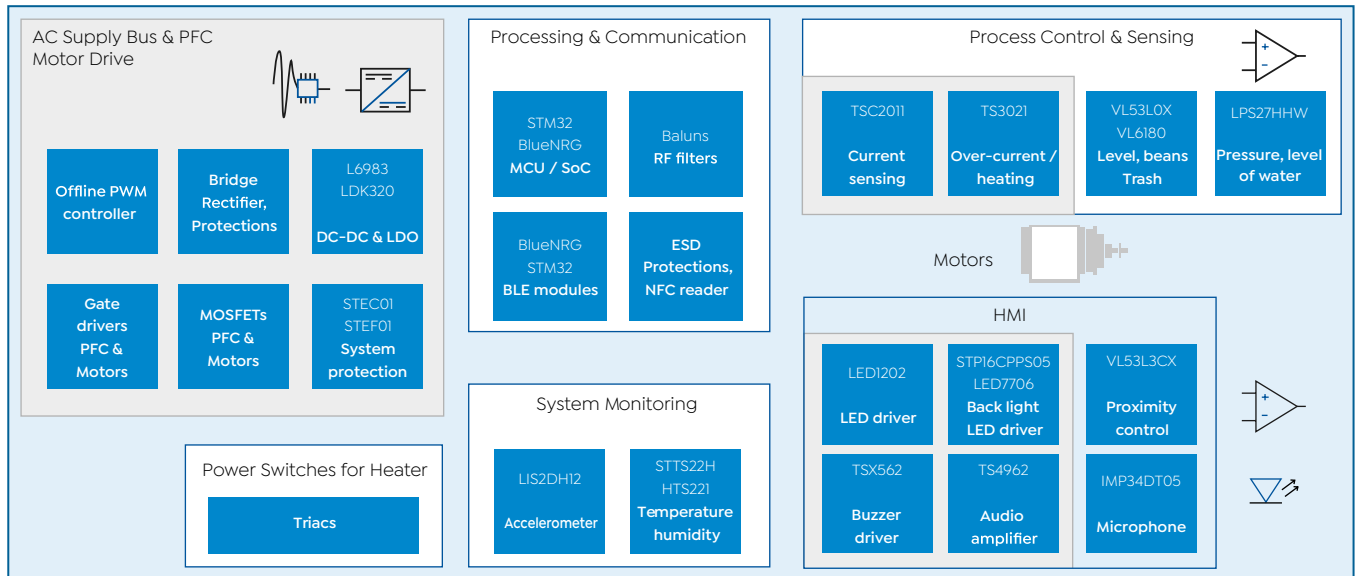
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## Small Appliance - Coffee Machine



A coffee machine can be a surprisingly high-tech appliance, featuring an elegant touchscreen and a combination of high-pressure water pumps, grinders and solenoid actuated valves, which must all be highly efficient and run quietly during the preparation of beverages.

**Learn all about ST's product offering for small Appliance Coffee - Machine by clicking on the relevant part numbers in the diagram below.**



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