



# Switch Detection Interface, 22 I/Os, Programmable Wetting Current, Temp Sensor, 3.3 V / 5.0 V SPI

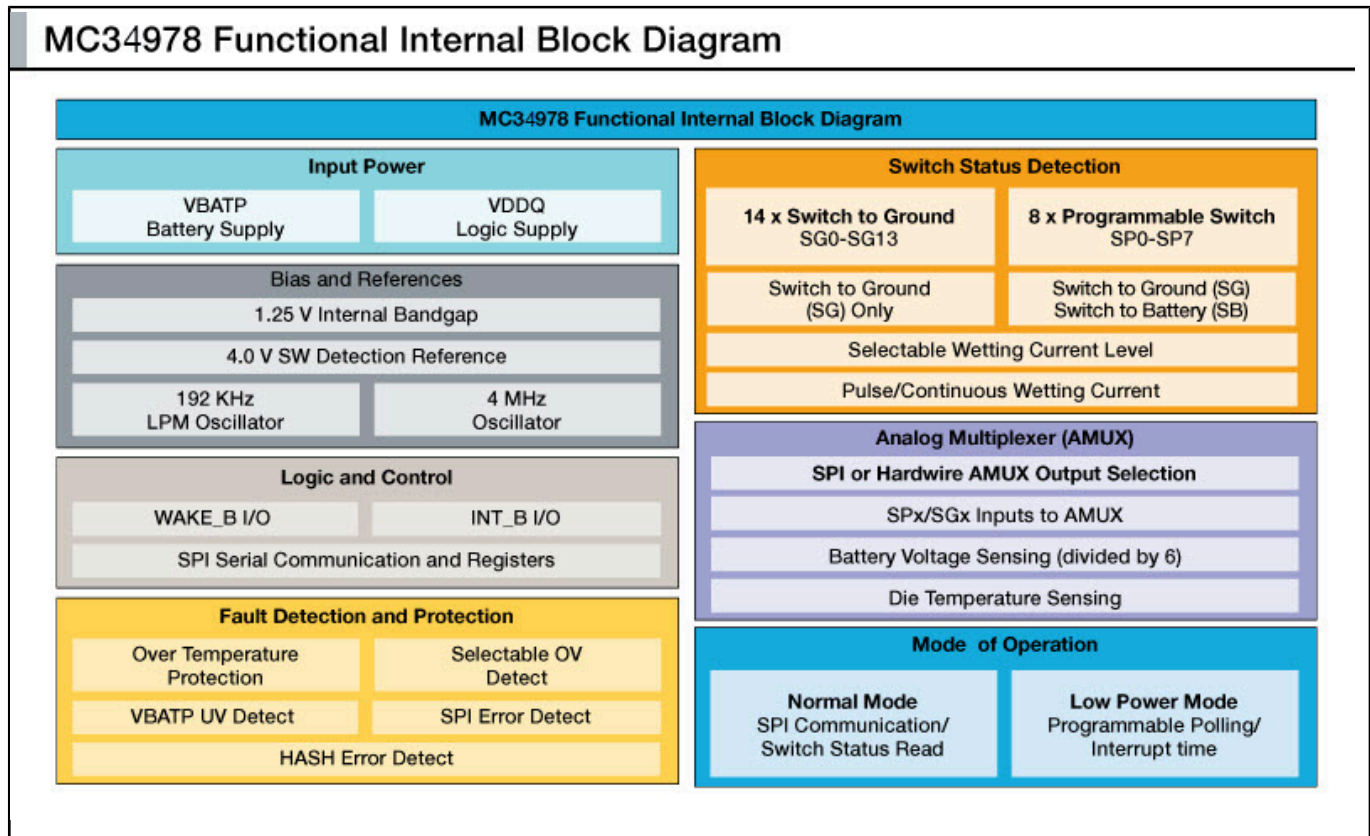
## MC34978

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The NXP® MC34978 is a multiple switch detection interface (MSDI) designed to detect the closing and opening of up to 22 switch contacts in industrial environments.

- The switch status, either open or closed, is transferred to the microprocessor unit through a serial peripheral interface (SPI)
- This SMARTMOS® device also features a 24-to-1 analog multiplexer for reading analog inputs
- Individually selectable input currents are available in Normal and Low-Power Mode (LPM), as needed in the application
- A battery and temperature monitor are included in the IC and are available via the AMUX pin
- This product interfaces with any microcontroller that supports SPI communications

# Switch Detection Interface, 22 I/Os, Programmable Wetting Current, Temp Sensor, 3.3 V / 5.0 V SPI Block Diagram



View additional information for [Switch Detection Interface, 22 I/Os, Programmable Wetting Current, Temp Sensor, 3.3 V / 5.0 V SPI](#).

Note: The information on this document is subject to change without notice.

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