



# Software Defined Radio Processor for V2X Communication

## SAF5100

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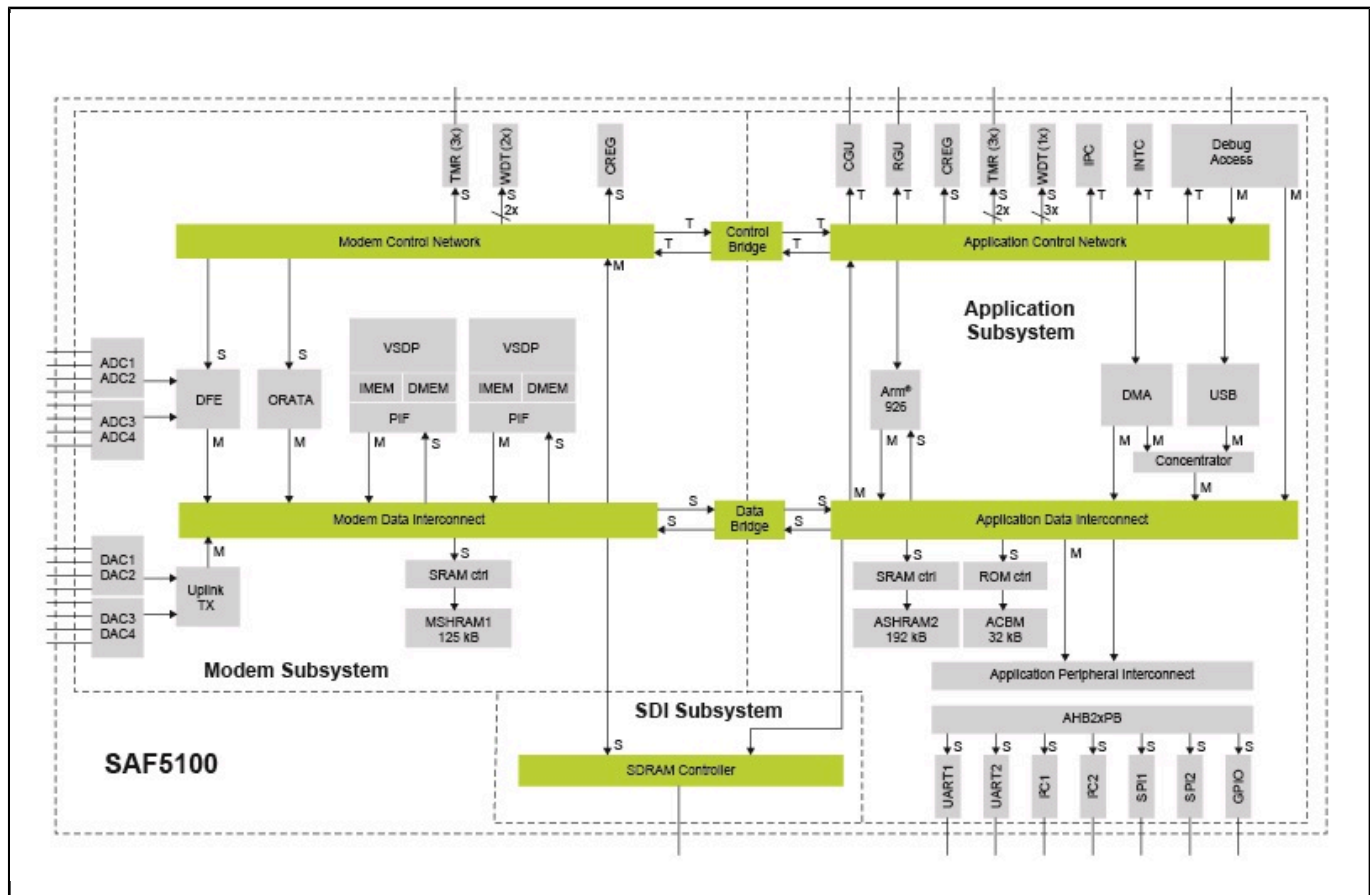
The SAF5100 is available in a Ball Grid Array (BGA) package occupying small Printed-Circuit Board (PCB) real estate and is suitable for multi-layer PCBs.

The SAF5100 this baseband processor includes Analog-to-Digital Converters (ADC) and Digital-to-Analog Converters (DAC) for interfacing with an external transceiver. Digital components included are:

- Digital Signal Processors (DSP) for advanced radio (de)modulation
- Hardware Accelerators (HWA) for IEEE 802.11p WiFi standard PHYsical layer (PHY) reception
- A microcontroller core for IEEE 1609.4 Medium Access Control (MAC)/Logical Link Control (LLC) processing
- Several standard interfaces such as Universal Serial Bus (USB) and SPI are included for connecting to an external host

The SAF5100 is available with an executable of a firmware comprising PHY/MAC (IEEE 802.11p and ETSI EN 302 663) and LLC (IEEE 1609.4 and ETSI EN 302 663) to be loaded into the RAM of the SAF5100.

## Software Defined Radio Processor for V2X Communication Block Diagram Block Diagram



View additional information for [Software Defined Radio Processor for V2X Communication](#).

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

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