

Cost-effective STM32MP1 MPU Gateway platform

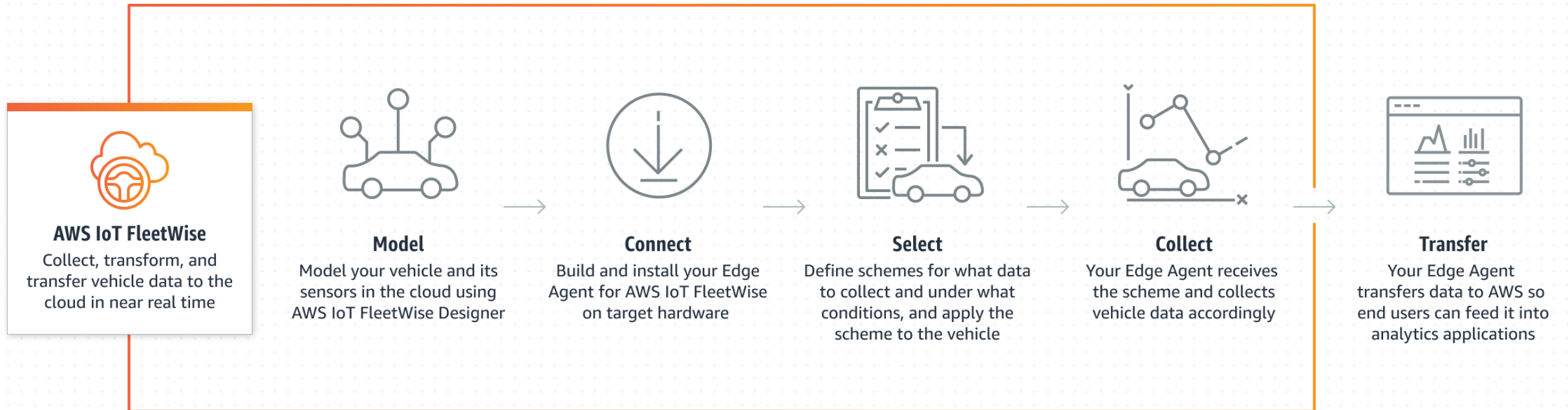
AWS IoT FleetWise



STM32MP13 microprocessor



AWS IoT FleetWise



STM32MP13, a cost-effective microprocessor

- **Industrial**

- Gateway
 - Headless Gateway
 - Gateway with simple HMI
- Factory automation / PLC
- Simple HMI



- **Metering / Data concentrator**

- **Barcode / QR code readers**

- **Health & Wellness**

- Personal healthcare
- Fitness equipment



- **Home / Building Automation**

- Gateway
 - Headless Gateway
 - Gateway with simple HMI
- Audio connected gateway
- White Goods / Home appliance

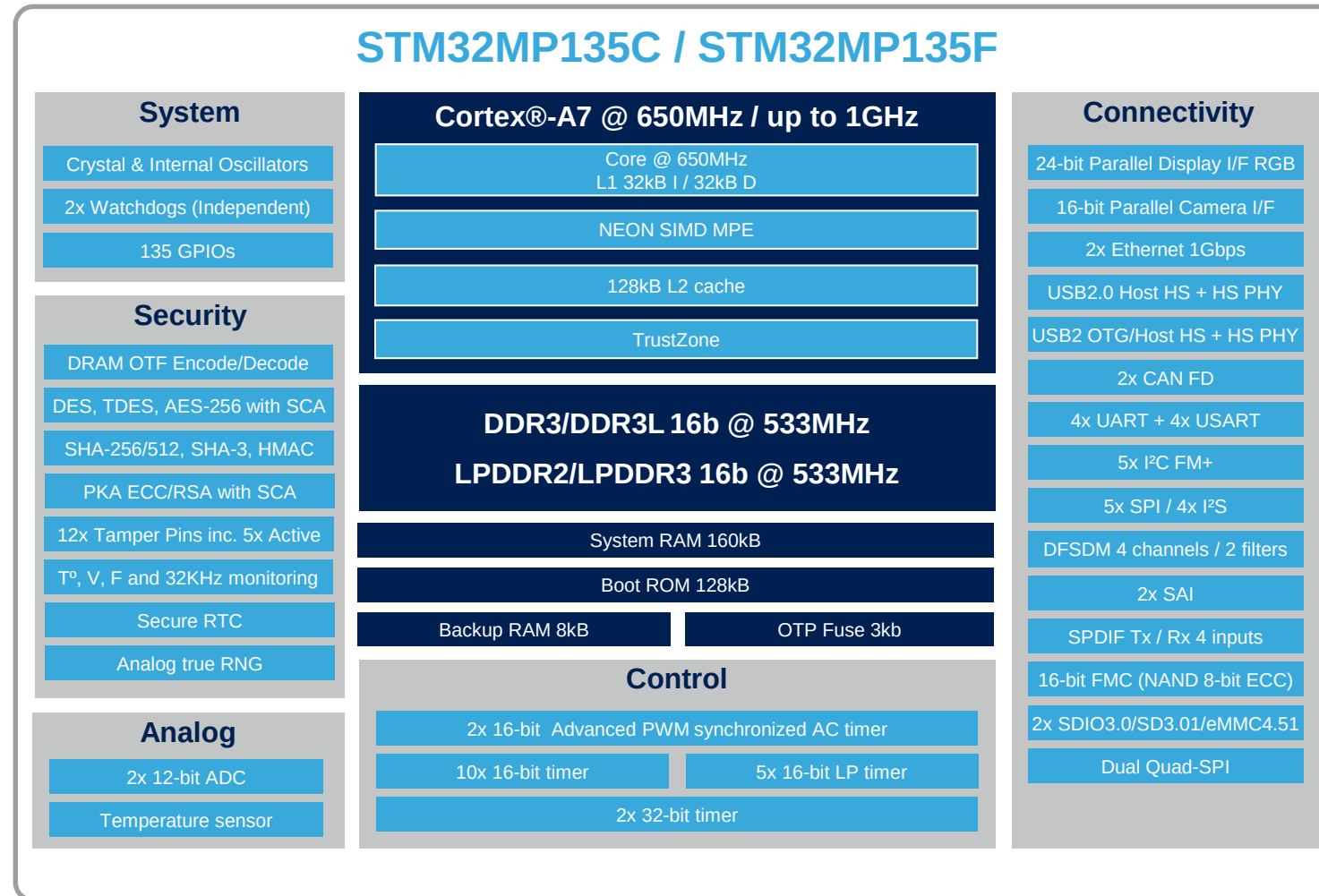


- **Highly secured applications**

- Point Of Sales (POS)
- Pin pad
- Cash registers
- Fiscal Printers
- Alarm / Security control panel



STM32MP135 MPU



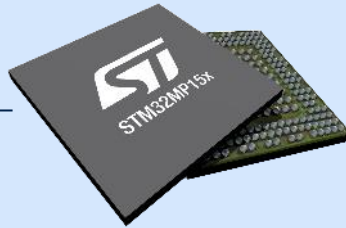
Arm® Cortex®-A7 @ 650MHz only from -40°C < Tj < 125°C
Arm® Cortex®-A7 @ 1GHz only from -40°C < Tj < 105°C



STM32MP1 MPU series for 32-bit applications

STM32MP15 lines

Dual Arm® Cortex®-A7
Arm® Cortex®-M4



Arm® Cortex®-A7
Arm® Cortex®-M4

STM32MP153

- Dual Cortex-A7 from 650 to 800 MHz
- Cortex-M4 at 209 MHz
- CAN FD

STM32MP157

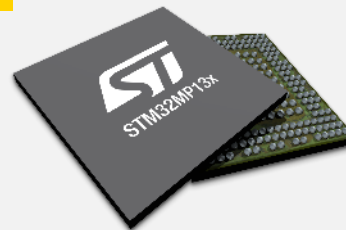
- Dual Cortex-A7 up to 800 MHz
- Cortex-M4 at 209 MHz
- CAN FD, 3D GPU, DSI display

STM32MP151

- Cortex-A7 from 650 to 800 MHz
- Cortex-M4 core at 209 MHz

STM32MP13 lines

Arm® Cortex®-A7



STM32MP131

- From 650 MHz to 1 GHz
- Ethernet

STM32MP133

- From 650 MHz to 1 GHz
- CAN FD, 2 x Ethernet

STM32MP135

- From 650 MHz to 1 GHz
- CAN FD, 2 x Ethernet
- Camera, parallel display

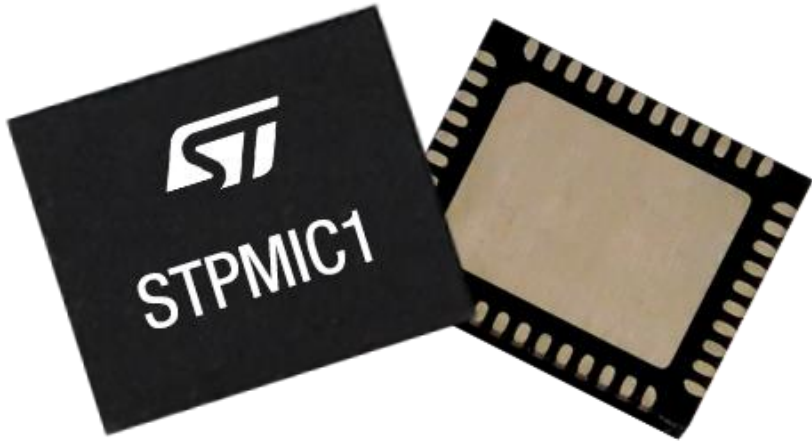


Security options available for all STM32MP1 MPUs



STPMIC1 power management IC dedicated to STM32MP1 MPU

Simplify your design and optimize power consumption



DC/DCs & LDOs for

- STM32MP1
- Memories
- External devices

Optimized power consumption

BOM savings for typical applications

Small PCB footprint vs. full discrete solution