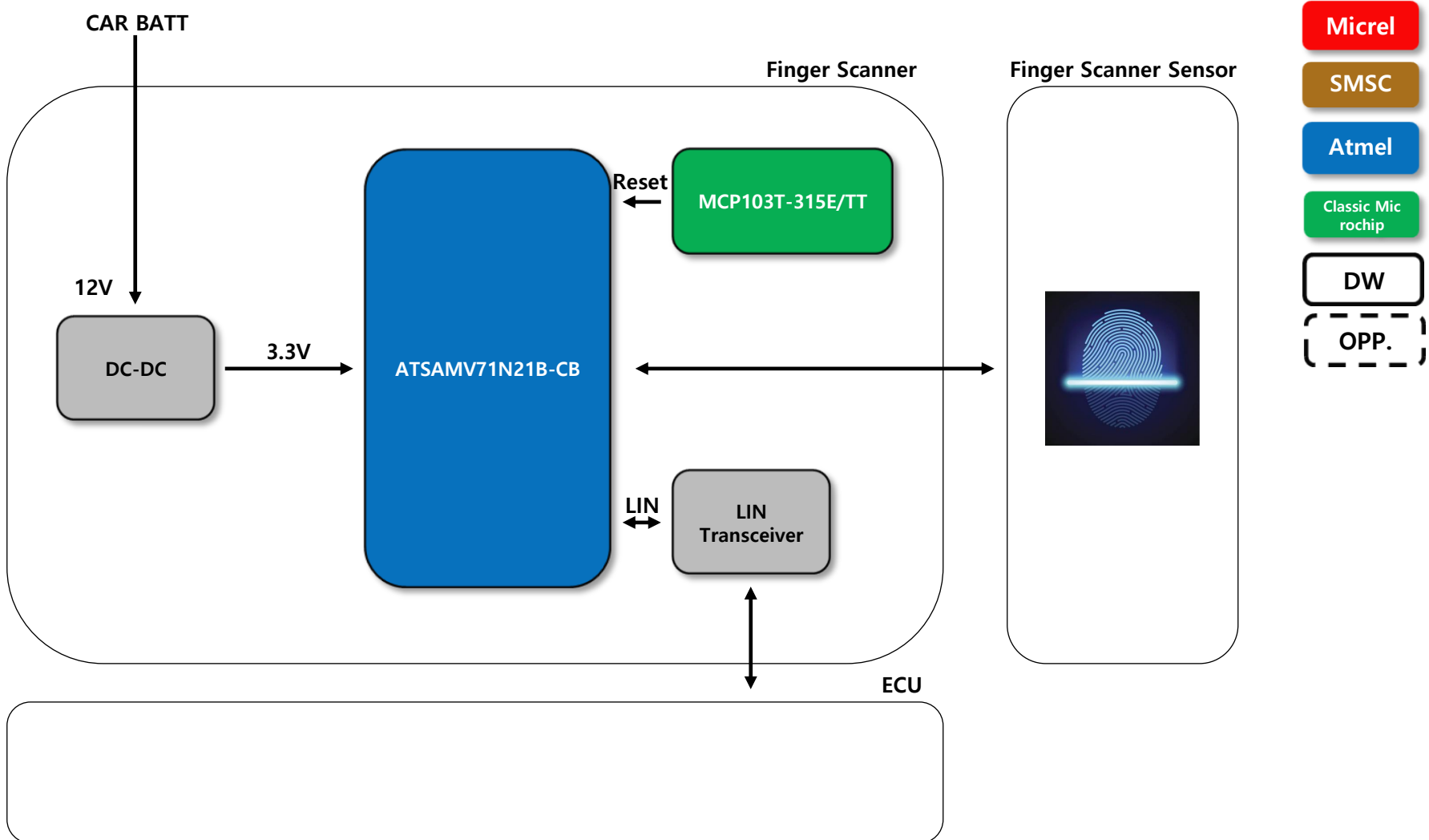


# Finger Scanner – Block Diagram



# Finger Scanner – System



<Power  
Meter>



<Fingerprint Scan>



<True>



<False>

## □ Microchip MCU, ATSAMV71N21B-CB

- ARM® Cortex®-M7 running up to 300MHz
- 16 Kbytes of ICache and 16 Kbytes of DCache with Error Code Correction (ECC)
- Single- and double-precision HW Floating Point Unit (FPU)
- Memory Protection Unit (MPU) with 16 zones
- DSP Instructions, Thumb®-2 Instruction Set
- Embedded Trace Module (ETM) with instruction trace stream, including Trace Port Interface Unit (TPIU)

## □ Microchip Voltage Supervisors, MCP103T-315E/T

- 1uA Supervisor Push-Pull Active Low
  - Operating current – 1.75uA (max)
  - Wide Voltage range – 1.0V to 5.5V
  - Available Trip Points – 1.9V, 2.32V, 2.63V, 2.93V, 3.08V, 4.38V, 4.63V
  - Trip point accuracy: +/- 1.5%
  - Output Options: Push-Pull
  - Package options – SOT23-3, SC70-3, TO92-3
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