

CYW89072

Bluetooth® LE 5.4 MCU with ARM Cortex M3 dedicated for automotive applications

The AIROC™ CYW89072 is an automotive grade Bluetooth® 5.2 compliant MCU. This device features a powerful Cortex®-M3 32-bit RISC processor with embedded ICE-RT debug and JTAG interface units. The microprocessor also includes 848 KB of ROM memory for program storage and boot ROM, 352 KB of RAM for data scratch-pad, and patch RAM code catering to the needs of a variety of automotive applications. This device is capable of automotive grade 2 (–40°C to +105°C) ambient operating temperature performance and is tested to Automotive Electronics Council AEC-Q100 environmental stress guidelines and is manufactured in ISO 9001-approved and TS16949-certified facilities.

Summary of Features

- Highly integrated Bluetooth® LE 5.2 MCU
- Cortex®-M3 32-bit RISC processor
- Embedded ICE-RT debug and JTAG interface units
- 848 KB ROM
- 352 KB RAM
- 2 independent SPI interfaces
- 1.7 to 3.6 V supply voltage range
- Up to 105°C operating temperature
- Bluetooth® LE receive sensitivity of -96 dBm
- Bluetooth® LE TX Power: up to +9 dBm

Potential Applications

- Automotive hands-free radios
- Automotive data communications
- Keyless entry/remote start/settings
- Tire pressure monitoring
- Remote sensors/accessories control

Parametrics

Parametrics	CYW89072
Launch Date	31-03-2020
Longevity - 15 years	Yes

Parametrics	CYW89072
Longevity - Extended	No
Planned to be available until at least	31-03-2035

Sales Product Name	CYW89072
OPN Info	CYW89072BRFB5G
Product Status	active and preferred
Infineon Package name	PG-VF2BGA-49
Standard Package name	FCBGA-49 (002-13606)
Completely lead free	yes
Halogen free	undefined
RoHS compliant	yes
Packing Size	1300
Packing Type	TRAY
Moisture Level	3
Moisture Packing	DRY