SAK-TC333LP-32F200F AA

Status: Active | **Package:** PG-LFBGA-292-3 | **Temperature:** -40°C to 125°C | **Automotive qualified**

Overview **Automotive grade microcontroller for ADAS and Safety applications**

Infineon's AURIX™ TC3xx 32-bit multi-core microcontroller family with enhanced performance, connectivity and safety features for next-generation automotive and industrial embedded systems. Built on the powerful TriCore™ architecture, AURIX™ TC3xx is the ideal platform for ADAS, safety gateways, and domain control applications.

Key features

- TriCore™ running at 200 MHz
- Multiple CAN FD, Ethernet and flexible serial I/O
- Hardware Security Module (HSM)
- ASIL-D ready, ISO 26262 compliant
- Up to [redacted] memory
- Performance and real-time monitor [redacted]
- Up to [redacted] cores
- Flexible [redacted] interface
- Package: [redacted]
- Temperature: [redacted]
- Wide range supply 4 V to 5.5 V
- Versatile clock controller
- Temperature: -40°C to 125°C

Benefits

- Best-in-class performance enabling ADAS domains
- Secure and increased scalability in the new AURIX™ TC4xx family
- Easy migration from AURIX™ TC2xx thanks to high software and hardware compatibility

Applications

Vehicle Electrification

- Battery Electric Vehicles (optimized for this product)
- Hybrid Electric Vehicles
- Internal Combustion Engines
- Transmission
- Power Drive
- Chassis
- Powertrain

Safety Applications

- Airbag Systems (optimized for this product)
- Electric Power Steering
- Braking
- Steering
- Radar ECU Modules (optimized for this product)
- Multifunction Camera (optimized for this product)
- Safety gateways
- Software Development Kits (SDKs)
- Automotive Ethernet Gateways
- Software Development Kits (SDKs) for Vehicle Dynamics
- ADAS

Smart Industrial

Industrial Drive Applications

- Motor Control (optimized for this product)
- Industrial Drives
- Industrial Robotics
- Industrial Automation
- Motor Control (optimized for this product)
- Industrial Drives
- Industrial Robotics
- Industrial Automation

Power Conversion Applications

- Photovoltaic Inverters
- Energy Storage Systems
- Uninterruptible Power Supply (UPS)
- Server, Telecom & Industrial SMPS
- Industrial Chargers

Power Supply Applications

- Traction Inverters
- Auxiliary Power Supply (APS) – Drives
- Traction Inverters
- Auxiliary Power Supply (APS) – Drives
- Traction Inverters
- Auxiliary Power Supply (APS) – Drives
- Traction Inverters
- Auxiliary Power Supply (APS) – Drives

HMI Applications

- HMI Display Control Unit
- Human Machine Interface (HMI)
- Human Machine Interface (HMI)
- Human Machine Interface (HMI)

Interactive Diagram ("pass over the diagram with the cursor to learn more about the features.)

Safety Concept
Safety Mechanisms
Safety Mechanisms
Safety Mechanisms