

User Manual

G32R501 Micro-EVB

Version: V1.0

1. Chip Feature

- Arm® Cortex®-M52 dual-core
- 640KB Flash, 128KB SRAM
- Arm Helium™ technology
- Zidian mathematical instruction extension
- IEEE 754-compliant single/double-precision FPU

2. On-board Resource

- USB with power Output (Type-C): 1
- Geehy-Link: 1
- SWD: 1
- RESET KEY: 1
- LEDs: 2
- GPIOs: 19
- ADC channels: 16
- 40-pin ExpandPack: 1

3. Debugging Methods

1. Power the MCU through USB or an external Geehy motor power board.
2. Connect the Geehy-Link USB interface to a PC for simulation and debugging.
3. To enable UART debugging, connect jumpers JP12 and JP13.
4. To use third-party tools, disconnect Geehy-Link and use JP3 for simulation and debugging.

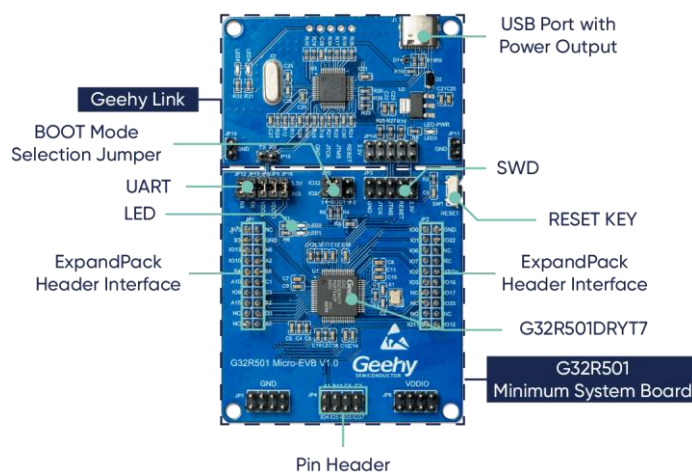
4. System

- FreeRTOS

5. Development Tool

- Arm Keil MDK($\geq$ V5.40)
- IAR Embedded Workbench($\geq$ V9.60.2)
- Eclipse

6. Appearance



7. Schematic Diagram

- Schematic: G32R501 Micro-EVB V1.0
- Datasheet: G32R501 Datasheet
- User Manual: G32R501 User Manual
- SDK: G32R501_SDK

The SDK and related resources are available for download at Geehy's official website:

www.geehy.com