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## **Version History**

Version	Date	Description
1.0	2021-07-29	Official release



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#### **Getting Started** 1

This chapter introduces the MD5 feature and gives you an idea of what you need to prepare to get started.

#### 1.1 **Overview**

Support the MD5 message-digest algorithm.

#### 1.2 **Code Layout**

driver\chip\mt7933\src\hal\_md5.c driver\chip\inc\hal md5.h driver\chip\mt7933\inc\hal\_gcpu\_internal.h

#### 1.3 MD5 APIs

```
hal_md5_status_t hal_md5_init(hal_md5_context_t *context)
* @brief This function initializes the MD5 engine.
* @param[in] context is the parameter of this API, see #hal md5 context t.
* @return #HAL_MD5_STATUS_OK, if the operation completes successfully.
*/
   hal_md5_status_t hal_md5_append(hal_md5_context_t *context, uint8_t *message,
    uint32 t length)
* @brief This function appends data for MD5 operation.
* @param[in] context is the parameter of this API, see #hal md5 context t.
* @param[in] message is the source data buffer.
* @param[in] length is the length of the parameter message.
* @return #HAL MD5 STATUS OK, if the operation completes successfully
- hal_md5_status_t hal_md5_end(hal_md5_context_t *context, uint8_t
```

```
digest_message[HAL_MD5_DIGEST_SIZE])
```

- \* @brief This function finishes the MD5 operation and receives the MD5 result.
- \* @param[in] context is the parameter of this API, see #hal\_md5\_context\_t.
- \* @param[out] digest\_message is the MD5 result.
- \* @return #HAL MD5 STATUS OK, if the operation completes successfully. \*/

## 2 MD5 Sample Use Cases

- \* Step 1. Call #hal\_md5\_init to() initialize the module.
- \* Step 2. Call #hal\_md5\_append() to encrypt.
- \* Step 3. Call #hal\_md5\_end() to get data.
- \* sample code:
- \* @code
- \* uint8\_t \*data = "abcdefghijklmnopqrstwxyz1234567";
- \* uint8\_t digest[HAL\_MD5\_DIGEST\_SIZE] = {0};
- \* hal\_md5\_context\_t context = {0};
- \* hal\_md5\_init(&context);
- \* hal\_md5\_append(&context, data, strlen(data));
- \* hal\_md5\_end(&context, digest);
- \* @endcode

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