UTC-W101B SUSI Control Library User Document

ADV UTC-W101B SUSI Control SDK V1.0.0.0

Abstract

This SUSI Control Library is a convenient and useful tool for users to build up their own application cooperates with SUSI functions of the UTC-W101B. This document specify the library structure and function usage example which enable users to have a big picture of the whole system and use the APIs in practical in no time.

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Library structure

This chapter describes the calling function procedure and design architecture of this SUSI Control Library. This library is tested with Advantech UTC-W101B. Library interface implement in C programming language. Programmers have to use UTC-W101B SUSI library with ADV_UTC101B_SUSI_Control library together.

Library Files

ADV_UTC101B_SUSI_Control.h
ADV_UTC101B_SUSI_Control.lib
ADV_UTC101B_SUSI_Control.dll

Library Version

First Release	V 1.0.0.0

API functions

ADV_UTC101B_Init

ADV_UTC101B_UnInit

ADV_UTC101B_GetLastError

ADV_UTC101B_GetVersion

ADV_UTC101B_LEDOn

ADV_UTC101B_LEDOff

ADV_UTC101B_LEDGetStatus

ADV_UTC101B_FBGetStatus

Function calling order

=> ADV_UTC101B_Init

=> SUSI Control APIs

=> ADV_UTC101B_UnInit

ADV_UTC101B_Init Function

Initialize SUSI Control Library.

Syntax

```
BOOL ADV_UTC101B_Init(
  void
);
```

Parameters

void

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE.

Example

```
ADV_UTC101B_Init();
```

ADV_UTC101B_UnInit Function

Deinitialize SUSI Control Library.

Syntax

```
BOOL ADV_UTC101B_UnInit(
  void
);
```

Parameters

void

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE.

Example

```
ADV_UTC101B_UnInit();
```

ADV_UTC101B_GetLastError Function

Retrieves the calling function's last-error code value.

Syntax

```
int ADV_UTC101B_GetLastError(
  void
);
```

Parameters

void

Return Value

The return value is specifying in ADV_UTC101B_SUSI_Control.h.

Remark

#define	ERRLIB_INITVALUE	-1
#define	ERRLIB_PREOPEN_FAIL	-2
#define	ERRLIB_POINTER_NULL	-3
#define	ERRLIB_ACTION_FAIL	-4

Example

```
ADV_UTC101B_GetLastError();
```

ADV_UTC101B_GetVersion Function

Return library version.

Syntax

```
void ADV_UTC101B_GetVersion(
  char *pVersion
);
```

Parameters

pVersion

A pointer to a pVersion that receives the library version information.

Return Value

Void

Example

```
char libVersion[10];
ADV_UTC101B_GetVersion(libVersion);
printf("%s", libVersion);
```

Example Sample Output

```
1.0.0.0
```

ADV_UTC101B_LEDOn Function

Turn on the LED in the top of UTC-W101B.

Syntax

```
BOOL ADV_UTC101B_LEDOn(
  void
);
```

Parameters

void

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE;

Example

```
ADV_UTC101B_LEDOn();
```

ADV_UTC101B_LEDOff Function

Turn off the LED in the top of UTC-W101B.

Syntax

```
BOOL ADV_UTC101B_LEDOff(
  void
);
```

Parameters

void

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE;

Example

```
ADV_UTC101B_LEDOff();
```

ADV_UTC101B_LEDGetStatus Function

Get LED status of UTC-W101B.

Syntax

```
BOOL ADV_UTC101B_LEDGetStatus(
  BOOL *bStatus
);
```

Parameters

bStatus

A pointer to the variable that get the LED On/Off status.

bStatus	LED On/Off
TRUE	LED Off
FALSE	LED On

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE;

Example

```
BOOL bStatus;
ADV_UTC101B_LEDGetStatus(&bStatus);
```

ADV_UTC101B_FBGetStatus Function

Get front button status of UTC-W101B.

Syntax

```
BOOL ADV_UTC101B_FBGetStatus(
  BYTE *bStatus
);
```

Parameters

bStatus

A pointer to the variable that gets the front buttons status. The button values from right to left will be 4(?), 8, 16, 32, 64 and 128.

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE.

Example

```
BYTE bStatus;
ADV_UTC101B_FBGetStatus(&bStatus);
```