

usbadc

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

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Chapter 3

Class Documentation

3.1 `usbadc_get_conversion_raw_t` Struct Reference

Public Attributes

- `uint16_t data` [10]
- `uint8_t Reserved` [12]

3.1.1 Member Data Documentation

3.1.1.1 `data`

```
uint16_t usbadc_get_conversion_raw_t::data[10]
```

Array with conversion results from 10 ADC channels with 12-bit precision. 0 corresponds to minimal voltage (GND), 4095 corresponds to ADC reference voltage (3.3 V).

3.1.1.2 `Reserved`

```
uint8_t usbadc_get_conversion_raw_t::Reserved[12]
```

Software should not rely on the value of this field. To provide compatibility with future products the value of this field shouldn't be modified.

The documentation for this struct was generated from the following file:

- [usbadc.h](#)

3.2 `usbadc_get_conversion_t` Struct Reference

Public Attributes

- `uint16_t data` [10]
- `uint8_t Reserved` [12]

3.2.1 Member Data Documentation

3.2.1.1 `data`

```
uint16_t usbadc_get_conversion_t::data[10]
```

Array with conversion results from 10 channels. Units: 100 uV. For example returned value 123 corresponds to the voltage of 12.3 mV.

3.2.1.2 `Reserved`

```
uint8_t usbadc_get_conversion_t::Reserved[12]
```

Software should not rely on the value of this field. To provide compatibility with future products the value of this field shouldn't be modified.

The documentation for this struct was generated from the following file:

- [usbadc.h](#)

3.3 `usbadc_get_identity_information_t` Struct Reference

Public Attributes

- `uint8_t Manufacturer` [16]
- `uint8_t ProductName` [16]
- `uint8_t ControllerName` [16]
- `uint8_t HardwareMajor`
- `uint8_t HardwareMinor`
- `uint16_t HardwareBugfix`
- `uint8_t BootloaderMajor`
- `uint8_t BootloaderMinor`
- `uint16_t BootloaderBugfix`
- `uint8_t FirmwareMajor`
- `uint8_t FirmwareMinor`
- `uint16_t FirmwareBugfix`
- `uint32_t SerialNumber`
- `uint8_t Reserved` [8]

3.3.1 Member Data Documentation

3.3.1.1 BootloaderBugfix

```
uint16_t usbadc_get_identity_information_t::BootloaderBugfix
```

Bootloader revision number.

3.3.1.2 BootloaderMajor

```
uint8_t usbadc_get_identity_information_t::BootloaderMajor
```

Bootloader major version number.

3.3.1.3 BootloaderMinor

```
uint8_t usbadc_get_identity_information_t::BootloaderMinor
```

Bootloader minor version number.

3.3.1.4 ControllerName

```
uint8_t usbadc_get_identity_information_t::ControllerName[16]
```

User controller name. This name can be set by user via additional command.

3.3.1.5 FirmwareBugfix

```
uint16_t usbadc_get_identity_information_t::FirmwareBugfix
```

Firmware revision number.

3.3.1.6 FirmwareMajor

```
uint8_t usbadc_get_identity_information_t::FirmwareMajor
```

Firmware major version number.

3.3.1.7 FirmwareMinor

```
uint8_t usbadc_get_identity_information_t::FirmwareMinor
```

Firmware minor version number.

3.3.1.8 HardwareBugfix

```
uint16_t usbadc_get_identity_information_t::HardwareBugfix
```

Revision number of the hardware version.

3.3.1.9 HardwareMajor

```
uint8_t usbadc_get_identity_information_t::HardwareMajor
```

Major number of the hardware version.

3.3.1.10 HardwareMinor

```
uint8_t usbadc_get_identity_information_t::HardwareMinor
```

Minor number of the hardware version.

3.3.1.11 Manufacturer

```
uint8_t usbadc_get_identity_information_t::Manufacturer[16]
```

Manufacturer name. The name is set by the manufacturer.

3.3.1.12 ProductName

```
uint8_t usbadc_get_identity_information_t::ProductName[16]
```

Product name. The name is set by the manufacturer.

3.3.1.13 Reserved

```
uint8_t usbadc_get_identity_information_t::Reserved[8]
```

Software should not rely on the value of this field. To provide compatibility with future products the value of this field shouldn't be modified.

3.3.1.14 SerialNumber

```
uint32_t usbadc_get_identity_information_t::SerialNumber
```

Device serial number.

The documentation for this struct was generated from the following file:

- [usbadc.h](#)

3.4 userimpl_data_t Struct Reference

Public Attributes

- void * **payload**
- [usbadc_logging_callback_t cb](#)

The documentation for this struct was generated from the following file:

- logging.cpp

Chapter 4

File Documentation

4.1 `usbadc.h` File Reference

`usbadc` API

```
#include <stdint.h>
```

```
#include <wchar.h>
```

Include dependency graph for `usbadc.h`:

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