MICA COMMON

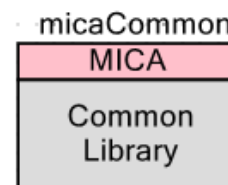## Common macros used across MICA components

Features

- Allows for easy importing of code and definitions that is shared between MICA components.

- Software only component.

General Description

Place MICA Common in the schematic whenever another MICA component is used. Not all MICA components require this however. If the error "Cannot find file 'micaCommon.h' " is present at build time, ensure the component is present, enabled, and has the exact name 'micaCommon'.

Input/Output Connections

The MICA Common component has no external connections

Component Parameters

The MICA Common component has no parameters other than the default "built-in" tab.

Application Programming Interface (API)

The MICA Common component contains a limited API, with no functions.

Functions

Function	Description
N/A	*N/A*

Component Macros

The following is a list of macros/constants that a user may find useful for interacting with the component. A component may contain macros not listed here.

Macro Name	Description
ZERO	Integer Literal 0
ONE	Integer Literal 1
TWO	Integer Literal 2
THREE	Integer Literal 3
FOUR	Integer Literal 4
FIVE	Integer Literal 5
SIX	Integer Literal 6
SEVEN	Integer Literal 7
EIGHT	Integer Literal 8
NINE	Integer Literal 9
BITS_SINGLE_BIT	The number of bits in one bit (i.e. 1)
BITS_ONE_NIBBLE	The number of bits in one nibble (i.e. 4)
BITS_ONE_BYTE	The number of bits in one byte (i.e. 8)
BITS_TWO_BYTES	The number of bits in two byte (i.e. 16)
BITS_THREE_BYTES	The number of bits in three byte (i.e. 24)
SHIFT_BYTE_HALF	Half byte shift value
SHIFT_BYTE_ONE	One byte shift value
SHIFT_BYTE_TWO	Two byte shift value
SHIFT_BYTE_THREE	Three byte shift value
MASK_NIBBLE_HIGH	Mask for the high nibble of a byte

MASK_NIBBLE_LOW	Mask for the low nibble of a byte
MASK_BYTE_ONE	Mask for one byte
MASK_BYTE_TWO	Mask for two bytes
MASK_BYTE_THREE	Mask for three bytes
MASK_BIT_ONE	Mask for the least significant bit
MASK_BIT_TWELVE	Mask for 1.5 bytes
MASK_ODD	Mask for checking parity of byte
INDEX_ZERO_CORRECT	Corrects for a zero indexed array

Change Log

This sections lists changes to the component from previous versions

Version	Revision	Description of Changes	Reason for Changes / Impact
v1.0	r0	Initial implementation of the component and datasheet	