

# iC-MA3 EVAL MA3\_1D

## EVALUATION BOARD DESCRIPTION

### ORDERING INFORMATION

Type	Order Designation	Description
iC-MA3	iC-MA3 EVAL MA3_1D	Evaluation board for iC-MA3

### BOARD MA3\_1D

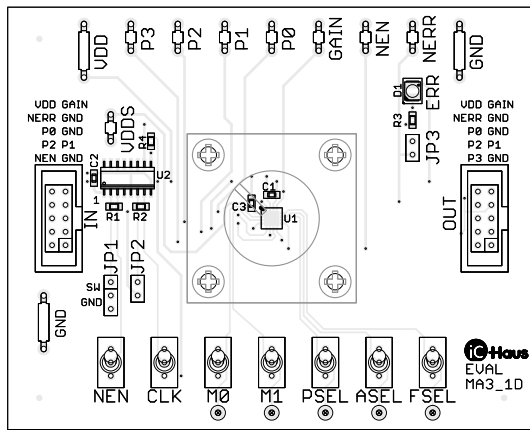


Figure 1: Component side

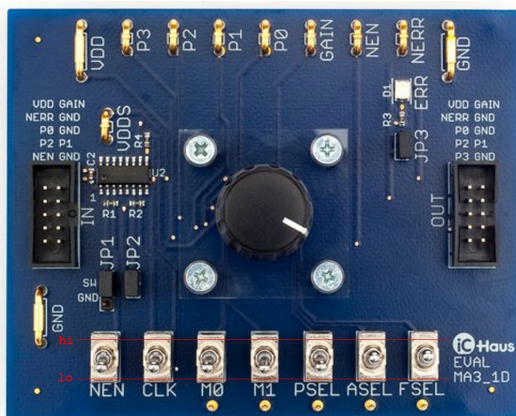


Figure 2: Top view

TERMINAL	DESCRIPTION
VDD	Supply Voltage (+3.0...+5.5 V)
GND	Ground (0 V)
P3	Port 3 / Output NENO
P2	Port 2
P1	Port 1
P0	Port 0 / Input CLK
GAIN	Amplitude Control Gain Output
NEN	Enable Input (active low)
NERR	Error Output (active low)

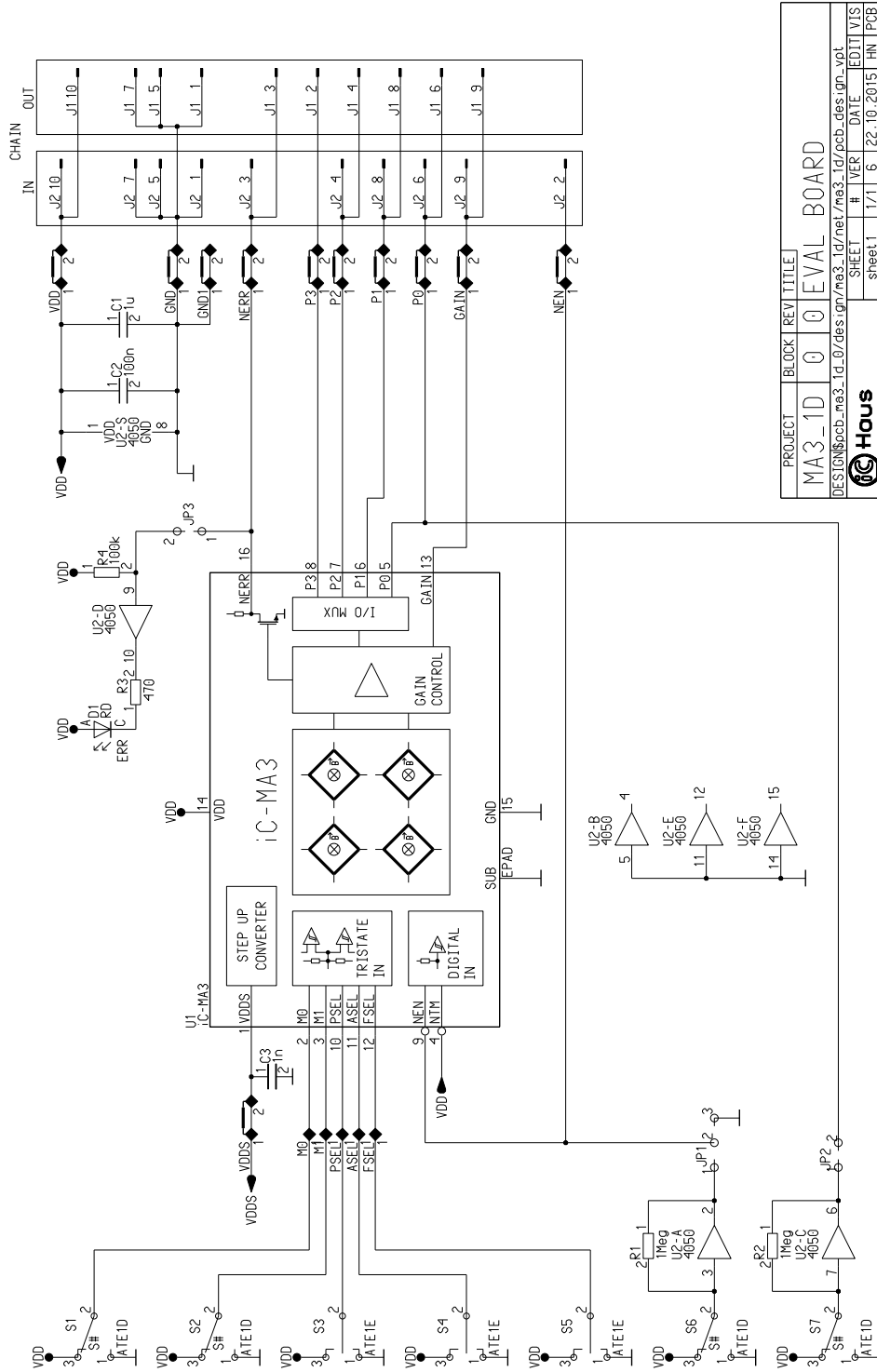
NEN switch	sets level (hi,lo) for NEN pin
CLK switch	sets level (hi,lo) for P0 pin
M0 switch	sets level (hi,lo) for M0 pin
M1 switch	sets level (hi,lo) for M1 pin
PSEL switch	sets level (hi,open,lo) for PSEL pin
ASEL switch	sets level (hi,open,lo) for ASEL pin
FSEL switch	sets level (hi,open,lo) for FSEL pin
JP1	connects NEN input either to NEN-switch or to GND
JP2	connects P0 pin to (buffered) CLK-switch
JP3	connects NERR output to (buffered) LED
IN	10-pole connector (for daisy-chaining)
Out	10-pole connector (for daisy-chaining)

The evaluation board is delivered with all jumpers JP1, JP2 and JP3 bridged. Depending on application, jumpers should be set or removed accordingly. By rotating the knob, the angular position of the Ø4x4 mm diametral magnet mounted at the lower end of the plastic hollow shaft can be changed freely. With the toggeling switches set in the "up" position, a logic high level is assigned to the corresponding configuration pin. Conversely, a "down" position sets the logic level to low. In addition, the switches PSEL, ASEL and FSEL can be set to a "middle" position, leaving the corresponding pin in an open state.

# iC-MA3 EVAL MA3\_1D

## EVALUATION BOARD DESCRIPTION

### CIRCUIT SCHEMATIC



PROJECT	BLOCK	REV	TITLE
MA3_1D	0	0	EVAL BOARD
DESIGN	PCB	MA3_1D_0	des igr/ma3_1d/net/ma3_1d/pcb_des igr.vpl
SHEET	#	VER	DATE
sheet.1	1/1	6	22.10.2015
		HN	PCB

Figure 3: Circuit diagram including optional components

# iC-MA3 EVAL MA3\_1D

## EVALUATION BOARD DESCRIPTION



Rev A2, Page 3/3

### RELATED DOCUMENTS

- iC-MA3 Data Sheet - Specification -  
→ <http://www.ichaus.de/product/iC-MA3>

### REVISION HISTORY

Rel.	Rel. Date*	Chapter	Modification	Page
A1	2017-05-17	ALL	Initial release	

Rel.	Rel. Date*	Chapter	Modification	Page
A2	2019-01-04	BOARD MA3_1D	VDD supply voltage description extended to +3.0...5.5V Settings of M0, M1 switches corrected to (hi, lo) Settings of hi, lo positions of the toggle switches indicated in Fig.2 for clarity and explained in the description.	1

iC-Haus expressly reserves the right to change its products and/or specifications. An Infoletter gives details as to any amendments and additions made to the relevant current specifications on our internet website [www.ichaus.com/infoletter](http://www.ichaus.com/infoletter) and is automatically generated and shall be sent to registered users by email. Copying – even as an excerpt – is only permitted with iC-Haus' approval in writing and precise reference to source.

The data specified is intended solely for the purpose of product description and shall represent the usual quality of the product. In case the specifications contain obvious mistakes e.g. in writing or calculation, iC-Haus reserves the right to correct the specification and no liability arises insofar that the specification was from a third party view obviously not reliable. There shall be no claims based on defects as to quality in cases of insignificant deviations from the specifications or in case of only minor impairment of usability.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information/specification or the products to which information refers and no guarantee with respect to compliance to the intended use is given. In particular, this also applies to the stated possible applications or areas of applications of the product.

iC-Haus products are not designed for and must not be used in connection with any applications where the failure of such products would reasonably be expected to result in significant personal injury or death (*Safety-Critical Applications*) without iC-Haus' specific written consent. Safety-Critical Applications include, without limitation, life support devices and systems. iC-Haus products are not designed nor intended for use in military or aerospace applications or environments or in automotive applications unless specifically designated for such use by iC-Haus.

iC-Haus conveys no patent, copyright, mask work right or other trade mark right to this product. iC-Haus assumes no liability for any patent and/or other trade mark rights of a third party resulting from processing or handling of the product and/or any other use of the product.

Software and its documentation is provided by iC-Haus GmbH or contributors "AS IS" and is subject to the ZVEI General Conditions for the Supply of Products and Services with iC-Haus amendments and the ZVEI Software clause with iC-Haus amendments ([www.ichaus.com/EULA](http://www.ichaus.com/EULA)).

\* Release Date format: YYYY-MM-DD