

iC-HG/HG30 iCSY HG8M

HIGH-SPEED MODULE



Rev A6, Page 1/3



FUNCTIONAL MODEL; EVAL-BOARD:

This device is for laboratory use only. Due to limited testing and lack of qualification for use under all conditions, long-term performance is not guaranteed. Malfunctions and operating errors may damage the device and the connected circuit; such damage may result in personal injury to the user. Safety goggles are mandatory. All liability and option of return are terminated upon activation of the device.

ORDERING INFORMATION

Type	Package	Options	Order Designation
iC-HG	HG8M	-	iC-HG iCSY HG8M
iC-HG30	HG8M	-	iC-HG30 iCSY HG8M

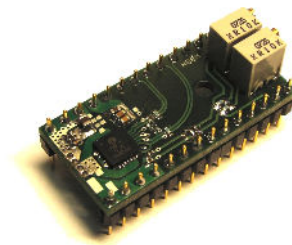


Figure 1: HG8M Package (DIL28)

PIN CONFIGURATION

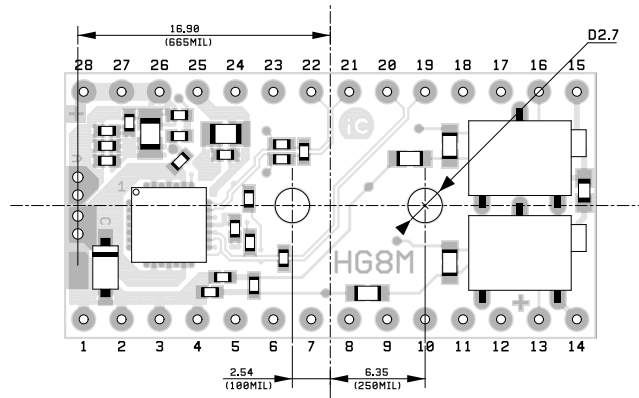


Figure 2: Top view / Dimensions in mm

No	Name	Function	No	Name	Function
1	GND	Ground, Analog Ground	15	POTVDD	Potentiometer 12 36 VDD
2	GND	Ground, Analog Ground	16	RCI12	Current Control Voltage 12
3	GND	Ground, Analog Ground	17	POTGND	Potentiometer 12 36 GND
4	GND	Ground, Analog Ground	18	POTGND	Potentiometer 12 36 GND
5	nc	not connected	19	EN46	Input Channel 4 + 6
6	nc	not connected	20	EN35	Input Channel 3 + 5
7	nc	not connected	21	EN2	Input Channel 2
8	nc	not connected	22	EN1	Input Channel 1
9	nc	not connected	23	ELVDS	TTL/LVDS Input Selector
10	nc	not connected	24	NER	Error Monitor Output
11	nc	not connected	25	VDD	Supply Voltage
12	nc	not connected	26	LDA	Anode Laser Diode
13	RCI36	Current Control Voltage 36	27	LDA	Anode Laser Diode
14	POTVDD	Potentiometer 12 36 VDD	28	LDA	Anode Laser Diode

SMT POSITIONS

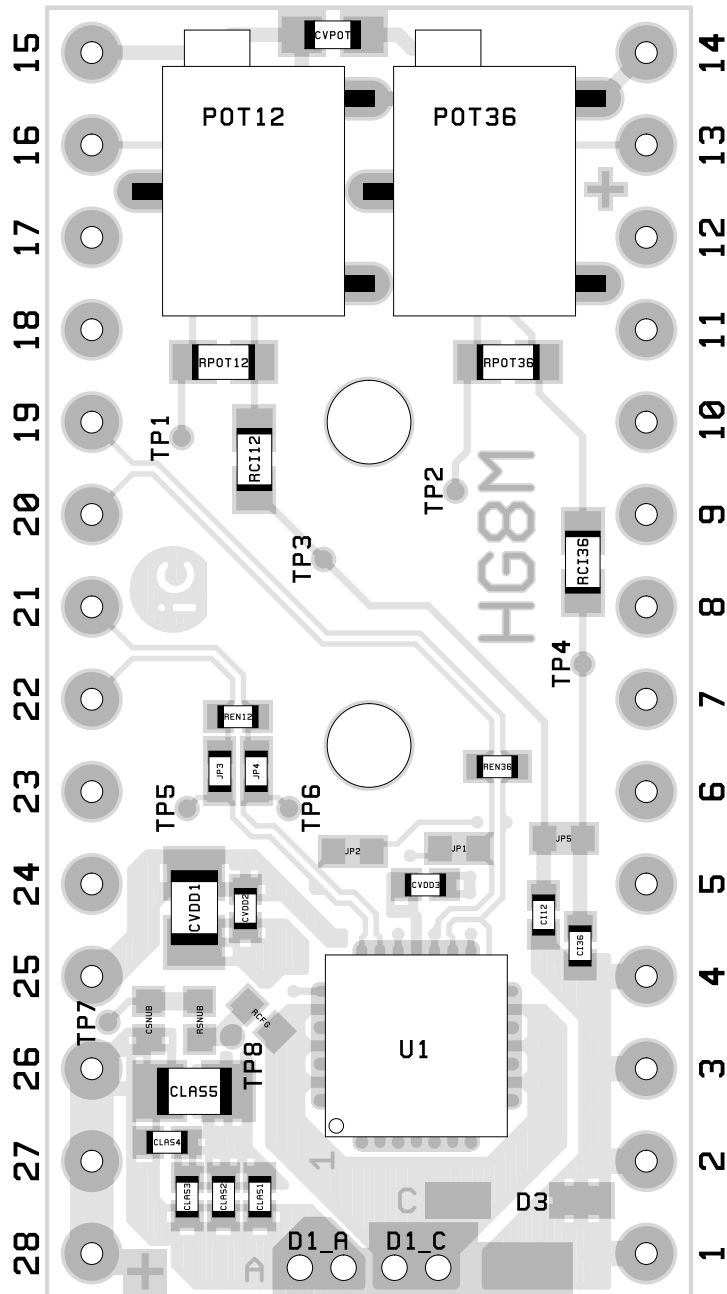


Figure 3: SMT Positions

NOTE: Module must be baked before exposing to high temperature processes (e.g. reflow soldering) to avoid delamination, PCB/VIA damages and popcorning (min 24 h at 100 °C).

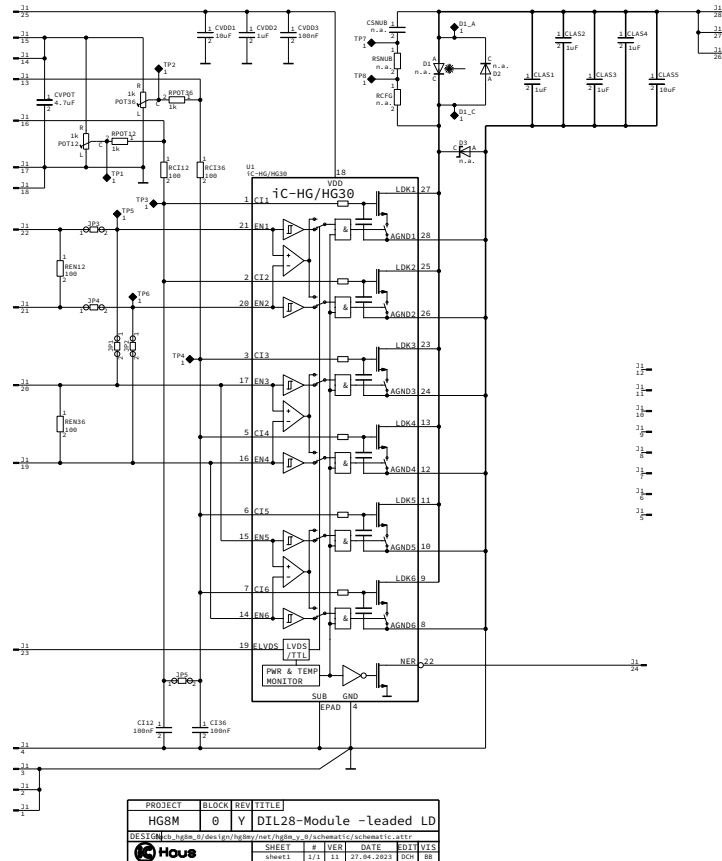
iC-HG/HG30 iCSY HG8M

HIGH-SPEED MODULE



Rev A6, Page 3/3

SCHEMATICS



ABSOLUTE MAXIMUM RATINGS

Item No.	Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
TG1	Ta	Operating Ambient Temperature Range		-20		85	°C
TG2	Ts	Storage Temperature Range		-20		85	°C

iC-Haus expressly reserves the right to change its products, specifications and related supplements (together the Documents). A Datasheet Update Notification (DUN) gives details as to any amendments and additions made to the relevant Documents on our internet website www.ichaus.com/DUN 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 and predicted functionality is intended solely for the purpose of product description and shall represent the usual quality and behaviour of the product. In case the Documents contain obvious mistakes e.g. in writing or calculation, iC-Haus reserves the right to correct the Documents and no liability arises insofar that the Documents were from a third party view obviously not reliable. There shall be no claims based on defects as to quality and behaviour in cases of insignificant deviations from the Documents 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 resp. Documents 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).