

RX130 Grouping IBIS Models

1. Version Rev 1.0

2. IBIS files

The usage conditions for each file are shown below.

Product group	File name	Item	Conditions		
			TYP	MIN	MAX
RX130 Group	rx130_512_vcc20_rev2.ibs	VCC	2.0V	1.8V	2.2V
		Tj	25°C	125°C	-40°C
	rx130_512_vcc30_rev2.ibs	VCC	3.0V	2.7V	3.3V
		Tj	25°C	125°C	-40°C
	rx130_512_vcc33_rev2.ibs	VCC	3.3V	3.0V	3.6V
		Tj	25°C	125°C	-40°C
	rx130_512_vcc50_rev2.ibs	VCC	5.0V	4.5V	5.5V
		Tj	25°C	125°C	-40°C

3. Target device

Targeted for RX130 Group package LFQFP, LQFP, HWQFN.

For each package, select the following Component in IBIS file.

[Component] Name	Model name	Package
LQFP48	R5F5130***FL	PLQP0048KB-B
LQFP64	R5F5130***FM R5F5130***FK	PLQP0064KB-C PLQP0064GA-A
LQFP80	R5F5130***FN	PLQP0080KB-B

LQFP100	R5F5130***FP	PLQP0100KB-B
HWQFN48	R5F5130***NE	PWQN0048KB-A

“*” indicates the specification of product. Please refer to RX130 Group User’s Manual: Hardware for details of Part No.

4. Precautions

I/O Model Selection

I/O model defined in the [Model Selector] are available for iobuff1_sel and iobuff3_sel which are mentioned in “model_name” of the [Pin] section.

Select I/O function according to MCU setting.

- [Model Selector] In case of iobuff1_sel

I/O model name	Pin function	Input level	Drive Capacity
pabesld0_sh2_2v_20v	Digital standard I/O	CMOS input	Normal drive output
pabesld1_sh2_2v_20v	Digital standard I/O	CMOS input	High-drive output

- [Model Selector] In case of iobuff3_sel

I/O model name	Pin function	Input level	Drive Capacity
patlsld0_sh1_2v_20v	5V tolerant I/O	CMOS input	Normal drive output
patlsld1_sh1_2v_20v	5V tolerant I/O	CMOS input	High-drive output
patlsld0_ttl_tv_30v	5V tolerant I/O	TTL input (*)	Normal drive output
patlsld1_ttl_tv_30v	5V tolerant I/O	TTL input (*)	High-drive output

(*) When RIIC register ICMR3.SMBS bit is 1 (The SMBus is selected) .

5. Revision history

Rev. of this readme file	Date	Description
1.0	2022.06	First Release.