22.6.10 I²C register map

The table below provides the I²C register map and reset values.

Table 122. I²C register map and reset values

Offset	Register	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0x00	I2C_CR1	Reserved																SWRST	Reserved	ALERT	PEC	POS	ACK	STOP	START	NOSTRETCH	ENGC	ENPEC	ENARP	SMBTYPE	Reserved	SMBUS	PE
	Reset value																	0		0	0	0	0	0	0	0	0	0	0	0		0	0
0x04	I2C_CR2	Reserved																			LAST	DMAEN	ITBUFEN	ITEVTEN	ITERREN	Reserved		FREQ[5:0]					
	Reset value																				0	0	0	0	0			0	0	0	0	0	0
0x08	I2C_OAR1	Reserved																ADDMODE	Reserved					ADD[9:8]		ADD[7:1]							ADD0
	Reset value																	0						0	0	0	0	0	0	0	0	0	0
0x0C	I2C_OAR2	Reserved																								ADD2[7:1]							ENDUAL
	Reset value																									0	0	0	0	0	0	0	0
0x10	I2C_DR	Reserved																								DR[7:0]							
	Reset value																									0	0	0	0	0	0	0	0
0x14	I2C_SR1	Reserved																SMBALERT	TIMEOUT	Reserved	PECERR	OVR	AF	ARLO	BERR	TxE	RxNE	Reserved	STOPF	ADD10	BTF	ADDR	SB
	Reset value																	0	0		0	0	0	0	0	0	0		0	0	0	0	0
0x18	I2C_SR2	Reserved																PEC[7:0]								DUALF	SMBHOST	SMBDEFAULT	GENCALL	Reserved	TRA	BUSY	MSL
	Reset value																	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
0x1C	I2C_CCR	Reserved																F/S	DUTY	Reserved		CCR[11:0]											
	Reset value																	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
0x20	I2C_TRISE	Reserved																										TRISE[5:0]					
	Reset value																											0	0	0	0	1	0

Refer to *Table 1: Low and medium-density device register boundary addresses* and *Table 2: High-density device register boundary addresses* for the register boundary addresses table.