SYSTEM & FLASH

Put this cap close to the Hi3535.

C178 27PF
C179 27PF
X3 24MHZ
R131 1MEG
R132 10
Pull down 10K to the GND.
R133 10K

C180 22PF
C181 22PF
X4 0.032768MHZ
GND1 GND2

The high precision RTC solution requires the use of the external RTC module.

JTAG_EN
JTAG_TDO
JTAG_TMS
JTAG_TDI
JTAG_TCK
JTAG_TRSTN

TEMPER_DQ
AVDD33_BAT
C183 100NF
AVDD33_RTC

R136 10K
Pull down 10K to GND

U4G
SYSTEM Interface 7 of 8
HI3535

T25 XIN
T26 XOUT
AB26 TEST_MODE

AE16 JTAG_EN
AG16 JTAG_TDO/GPIO12_3
AH16 JTAG_TMS/GPIO12_2
AH17 JTAG_TDI/GPIO12_4
AF16 JTAG_TCK/GPIO12_1
AG17 JTAG_TRSTN/GPIO12_0

U27 RTC_XIN
U28 RTC_XOUT
V28 GPIO0_5/TEMP_DQ
U24 AVDD_BAT
U21 AVDD33_RTC

AA22 AVDD_EFUSE
U22
U25 AVSS_RTC1
U26 AVSS_RTC2
V27 AVSS_RTC3
V24 AVSS_RTC4
Y22 AVSS_RTC5
AVSS_EFUSE

RSTN AF28 SYS_RSTN
WDG_RSTN AF27 WDG_RSTN
GPIO11_0/PWM_SVB0 D2 PWM_SVB0
GPIO11_1/PWM_SVB1 AB25 PWM_SVB1

GPIO4_0/SFC_DIO AC26 SFC_DO
GPIO4_1/SFC_WP_IO2 AE27 SFC_WP_IO2
SFC_ADDR_MODE/SFC_CLK AD27 SFC_ADDR_MODE R134 0 SFC_CLK
GPIO4_2/SFC_DOI AD28 SFC_DI
GPIO4_3/SFC_HOLD_IO3 AC27 SFC_HOLD_IO3
GPIO4_4/SFC_CS0N AE28 SFC_CS0N
GPIO4_5/SFC_CS1N AC28 SFC_CS1N

SFC_DO
SFC_WP_IO2
SFC_CLK
SFC_ADDR_MODE
SFC_DI
SFC_HOLD_IO3
SFC_CS0N
SFC_CS1N

GPIO3_0/NF_DQ0 AB27 NF_DQ0
GPIO3_1/NF_DQ1 AB28 NF_DQ1
GPIO3_2/NF_DQ2 AA25 NF_DQ2
GPIO3_3/NF_DQ3 AA26 NF_DQ3
GPIO3_4/NF_DQ4 AA27 NF_DQ4
GPIO3_5/NF_DQ5 AA28 NF_DQ5
GPIO3_6/NF_DQ6 Y27 NF_DQ6
GPIO3_7/NF_DQ7 Y28 NF_DQ7

NF_RDY0 V25 NF_RDY0
NF_RDY1 W27 NF_RDY1
NF_BOOT_PIN0/NF_REN W26 NF_BOOT_PIN0/NF_REN
GPIO12_5/NF_CSN0 V26 NF_CSN0
GPIO12_6/NF_CSN1 W28 NF_CSN1

NF_BOOT_PIN1/NF_CLE W25 NF_BOOT_PIN1/NF_CLE
NF_BOOT_PIN2/NF_ALE Y26 NF_BOOT_PIN2/NF_ALE
NF_BOOT_PIN3/NF_WEN Y25 NF_BOOT_PIN3/NF_WEN

D3 3V3
1N4148 SOD523
AVDD33_BAT
BT1
BAT_3V

C182 8pF
C0402
32.768K
C185 8pF
C0402
cm315d
Y1
AVDD33_BAT
C0402
C184 1uF
R135
R0402 10K 3V3
U7
MCP7940M-I/SN
1 OSCI VCC 8
2 OSCO MFP 7 RTC_CLKOUT
3 NC SLC 6 I2C0_SCL
4 VSS SDA 5 I2C0_SDA
soic-8

RTC_CLKOUT 3,5
I2C_SCL
I2C_SDA

Temperature sampling

1000R@0.25A_0402

3V3
LB8 LB
AVDD33_RTC
C186 100NF

3V3
Q1 DS1820
C187 100NF
R142 4.7K
VDD GND
DQ
TEMPER_DQ

This device should be placed near to the OSC of the RTC.

3V3
R137 4.7K
R138 4.7K
R139 4.7K

3V3
R140 4.7K
R141 4.7K

U8
H27UBG8T2BTR

NF_CSN0 9 CE
NF_BOOT_PIN0/NF_REN 8 RE
NF_BOOT_PIN3/NF_WEN 18 WE
19 WP
NF_BOOT_PIN2/NF_ALE 17 ALE
NF_BOOT_PIN1/NF_CLE 16 CLE
NF_RDY0 7 R/B~

NF_DQ0 29 IO_0
NF_DQ1 30 IO_1
NF_DQ2 31 IO_2
NF_DQ3 32 IO_3
NF_DQ4 41 IO_4
NF_DQ5 42 IO_5
NF_DQ6 43 IO_6
NF_DQ7 44 IO_7

NC1 1
NC2 2
NC3 3
NC4 4
NC5 5
NC6 6
NC7 10
NC8 11
NC9 14
NC10 15
NC11 20
NC12 21
NC13 22
NC14 23
NC15 24
NC16 26
NC17 27
NC18 28
NC19 33
NC20 35
NC21 40
NC22 45
NC23 46

NF_RDY1
NF_CSN1

12 VCC1
37 VCC2
34 VCC3/NC26
39 VCC4/NC27
R143 0/NC
13 VSS1
36 VSS2
R144 0/NC
25 VSS3/NC28
48 VSS4/NC29

NC24/DNU1 38
NC25/DNU2 47

3V3
C188 10uF
C189 100NF
C190 100NF
C191 100NF
C192 100NF