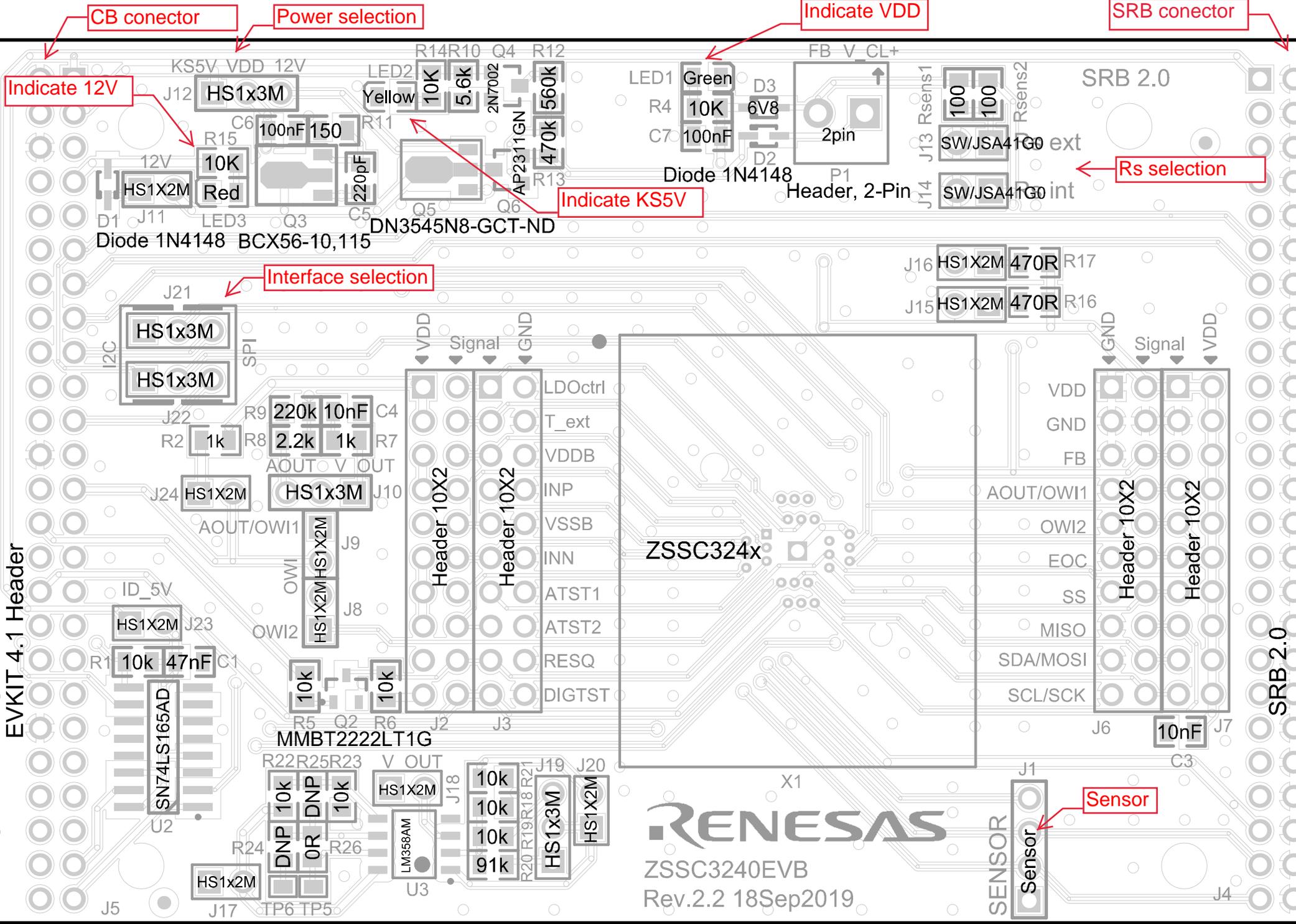


Title: ZSSC3240EVB			<b>RENESAS</b>
Project: ZSSC3240EVB.PrjPcb			
Size: A3	Sheet: 1 of 1	Drawn by:	
File: ZSSC3240EVB.SchDoc			
Revision: 2.2			Date: 9.4.2020 r.



CB conector

Power selection

Indicate VDD

SRB conector

Indicate 12V

Indicate KS5V

Interface selection

Rs selection

Sensor

EVKIT 4.1 Header

SRB 2.0

**RENESAS**

ZSSC3240EVb  
Rev.2.2 18Sep2019

SENSOR

Sensor

ZSSC324x

Header 10X2

Header 10X2

Header 10X2

Header 10X2

KS5V VDD 12V  
LED2 Yellow  
R14R10 Q4 R12  
10K 5.6k 2N7002  
470k 560k  
R15 100nF 150  
R11  
220pF  
AP2311GN  
R13  
LED1 Green  
R4 10K  
C7 100nF  
D3 6V8  
FB V CL+  
2pin  
J13 Rsens1  
SW/JSA41G0 ext  
Rsens2  
100 100  
SRB 2.0  
J14 SW/JSA41G0 int

Diode 1N4148  
P1 Header, 2-Pin

Diode 1N4148 BCX56-10,115  
DN3545N8-GCT-ND

J16 HS1X2M 470R R17  
J15 HS1X2M 470R R16

J21 HS1x3M  
HS1x3M  
I2C SPI  
J22 R9 220k 10nF C4  
R2 1k R8 2.2k 1k R7  
AOOUT V OUT  
J24 HS1X2M HS1x3M J10

VDD Signal GND  
LD0ctrl  
T\_ext  
VDDDB  
INP  
VSSB  
INN  
ATST1  
ATST2  
RESQ  
DIGTST

VDD  
GND  
FB  
AOOUT/OW1  
OWI2  
EOC  
SS  
MISO  
SDA/MOSI  
SCL/SCK

ID\_5V  
HS1X2M J23  
R1 10k 47nF C1  
SN74LS165AD  
C2  
MMBT2222LT1G  
R22R25R23 V OUT  
HS1X2M J18  
LM358AM  
U3  
R24 DNP 10k DNP 10k  
OR 10k R26  
91k  
R20 R19R18 R21  
J19 J20  
HS1x3M HS1X2M

J5  
J17 TP6 TP5  
J8 HS1X2M HS1X2M HS1X2M J8  
J9 HS1X2M HS1X2M J9  
J10 HS1X2M HS1X2M J10  
J11 Diode 1N4148 BCX56-10,115  
J12 HS1X3M  
J13 Rsens1 SW/JSA41G0 ext  
J14 SW/JSA41G0 int  
J15 HS1X2M 470R R16  
J16 HS1X2M 470R R17  
J17 HS1X2M  
J18 HS1X2M  
J19 HS1X3M  
J20 HS1X2M  
J21 HS1x3M  
J22 R9 220k 10nF C4  
R2 1k R8 2.2k 1k R7  
AOOUT V OUT  
J24 HS1X2M HS1x3M J10

J6 10nF J7

J4



## BILL OF MATERIALS ZSSC3240\_EVB

No	Name	Type	Package	Manufacturer	Manufacturer Code	pcs.
1	C1	47nF 100V X7R +-10%	C0805	SAMSUNG ELECTRO-MECHANICS	CL21B473KCFNNNF	1
2	C3,C4	10nF 50V X7R +-5%	C0805	SAMSUNG ELECTRO-MECHANICS	CL21B103JBANNNC	2
3	C5	220pF 50V C0G +-5%	C0805	SAMSUNG ELECTRO-MECHANICS	CL21C221JBNC	1
4	C6, C7	100nF 50V X7R +-10%	C0805	SAMSUNG ELECTRO-MECHANICS	CL21B104KBNC	2
5	D1, D2	75V 300mA 4ns 2pF	SOD323	DIODES/ZETEX	1N4148WS-7-F	2
6	D3	6.8V 200mW	SOD323	ROHM	UD2STE-176.8B	1
7	J1	HN1X4 2.54mm	HS1X4M	CVILUX	CH31042V200	1
8	J2,J3,J6,J7	HN2X40 TH, P2.54mm	HS2X10M	CVILUX	HN2X40	4
9	J4	2x 25-pin socket terminal strip, angled, RM 2.54	HR2X25M	N.A	N.A	1
10	J5	2 x 25-pin header, angled, pitch 2.54	HR2X25F	N.A	N.A	1
11	J8, J9, J11, J15, J16, J17, J18, J20, J23, J13,J14,J24	HN1X2	HS1X2M	3M	961102-6404-AR	12
12	J10, J12, J19, J21, J22,	HN1X3 TH, P2.54mm	HS1X3M	CVILUX	CH31032V200	5
13	LED1	OSG50805C1E	LED0805 G 3D	OPTOSUPPLY INTERNATIONAL	OSG50805C1E	1
14	LED2	OSY50805C1E	LED0805 Y 3D	OPTOSUPPLY INTERNATIONAL	OSY50805C1E	1
15	LED3	OSR50805C1E	LED0805 R 3D	OPTOSUPPLY INTERNATIONAL	OSR50805C1E	1
16	P1	DG350-3.5-02P-14-00AH	HDR 1x2	DEGSON	DG350-3.5-02P-14-00AH	1
17	Q2	MMBT2222LT1G. - Bipolar (BJT) Single Transistor, General P	ONSC-SOT-23-3-318-08_L	ON SEMICONDUCTOR	MMBT2222LT1G.	1
18	Q3	NPN 80V 1A 1.3W HFE 100-250	SOT89	DIODES/ZETEX	BCX5616TC	1
19	Q4	NMOS 60V 0.115A 0.225W, 7.5Ohm/10V	SOT23	ON SEMICONDUCTOR	2N7002LT1G	1
20	Q5	DN3545N8-G - MOSFET Transistor, N Channel, 200 mA, 450	SOT89	MICROCHIP	DN3545N8-G	1
21	Q6	PMOS 60V 1.8A 1.38W 250mOhm/10V; 300mOhm/4.5V	SOT23	ADVANCED POWER ELECTR. CO	AP2311GN-HF-3TR	1
22	R1, R4, R5, R6, R14, R15, R18, R19, R21, R22, R23	RES SMD 0805 5% 10K 1/8W	R0805 3D	UNI OHM	0805S8J0103T50	11
23	R7,R2	RES SMD 0805 5% 200ppm 1.0K 1/8W	R0805 3D	UNI OHM	0805S8J0102T50	2
24	R8	RES SMD 0805 5% 2.2K 1/8W	R0805 3D	UNI OHM	0805S8J0222T50	1
25	R9	RES SMD 0805 5% 100ppm 220K 1/8W	R0805 3D	UNI OHM	N.A	1
26	R10	RES SMD 0805 1% 100ppm 5.6K 1/8W	R0805 3D	YAG/ASJ	N.A	1
27	R11	RES SMD 0805 5% 200ppm 150R 1/8W	R0805 3D	UNI OHM	0805S8J0151T50	1
28	R12	RES SMD 0805 5% 560K 1/8W	R0805 3D	UNI OHM	0805S8J0564T50	1
29	R13	RES SMD 0805 5% 470K 1/8W	R0805 3D	UNI OHM	0805S8J0474T50	1
30	R16, R17	Резистори SMD 0805 5%	R0805 3D	UNI OHM	0805S8J0471T50	2
31	R20	Res 91K	R0805 3D	UNI OHM	0805S8J0913T50	1
32	R24, R25	DNP	R0805 3D			2
33	R26	RES SMD 0805 JUMPER MAX 2A 50mOhm	R0805 3D	YAG/ASJ	N.A	1
34	Rsens1, Rsens2	RES SMD 0805 5% 100ppm 100R 1/8W	R0805 3D	YAG/ASJ	N.A	2
35	U2	SN74LS165AD - SERIAL-OUT SHIFT REGISTERS, 74LC165	SOIC16-3.81-1.27	TEXAS INSTRUMENTS	SN74LS165AD	1
36	U3	Low Power Dual Operational Amplifier, 8-pin Narrow SOIC	SO8	ON SEMICONDUCTOR	LM358DR2G	1
37	X1	QFN24 ZIF socket	QFN24 Socket	PLASTRONICS	24LQ50K14040	1

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