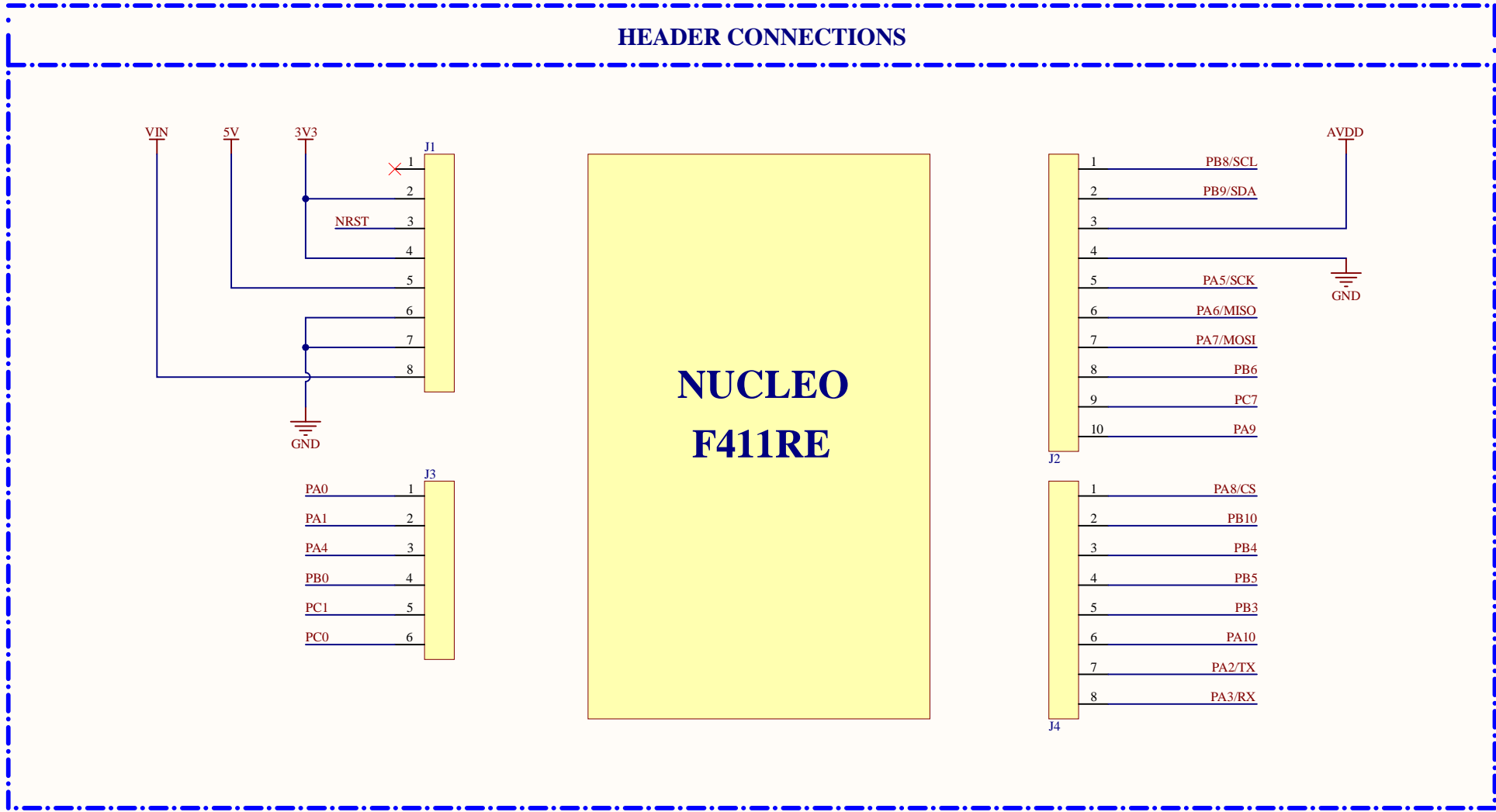


**Main
Communication
Protocol: I2C**

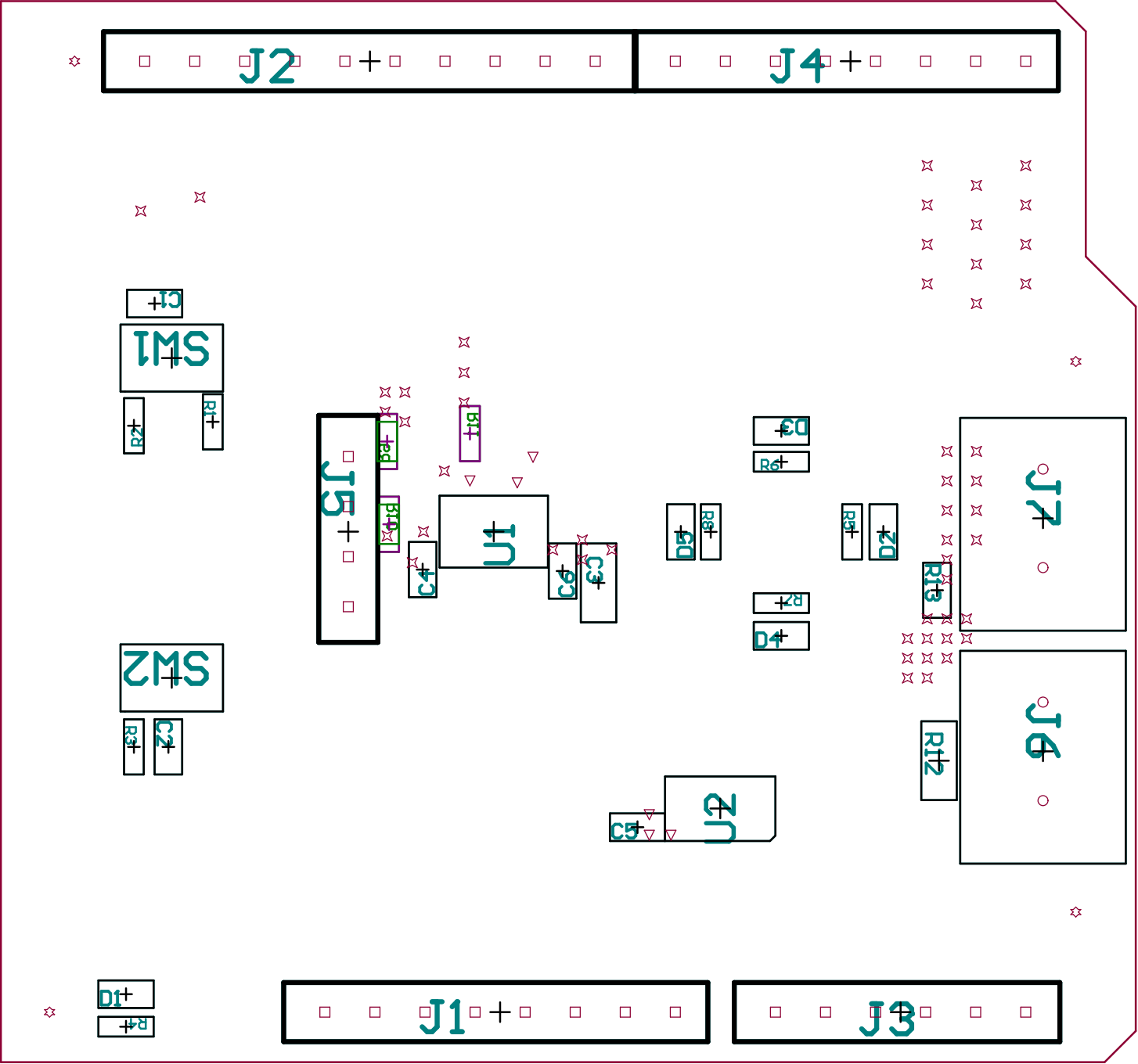
- Mems Accelerometer, 3-AXIS:
ADXL345BCCZ
- Temperature, Voltage And Current Monitor:
LTC2990IMS#TRPBF
- Capacitors:
T491A106K010AT
CC0805KRX7R9BB471
CL21B104KBCNNNC
- Resistors:
RC0603JR-074K7L
RC0805FR-07470RL
RC0805JR-0710KL
RL1206FR-070R01L
- Terminal Block:
282836-2
- LEDs:
LTST-C170KFKT - Orange
LTST-C171GKT - Green
LH R974-LP-1 - Red
150080BS75000 - Blue
- Headers:
PPTC041LFBN-RC
PPTC061LFBN-RC
PPTC081LFBN-RC
PPTC101LFBN-RC
- Tactile Switch:
PTS815 SJK 250 SMTR LFS

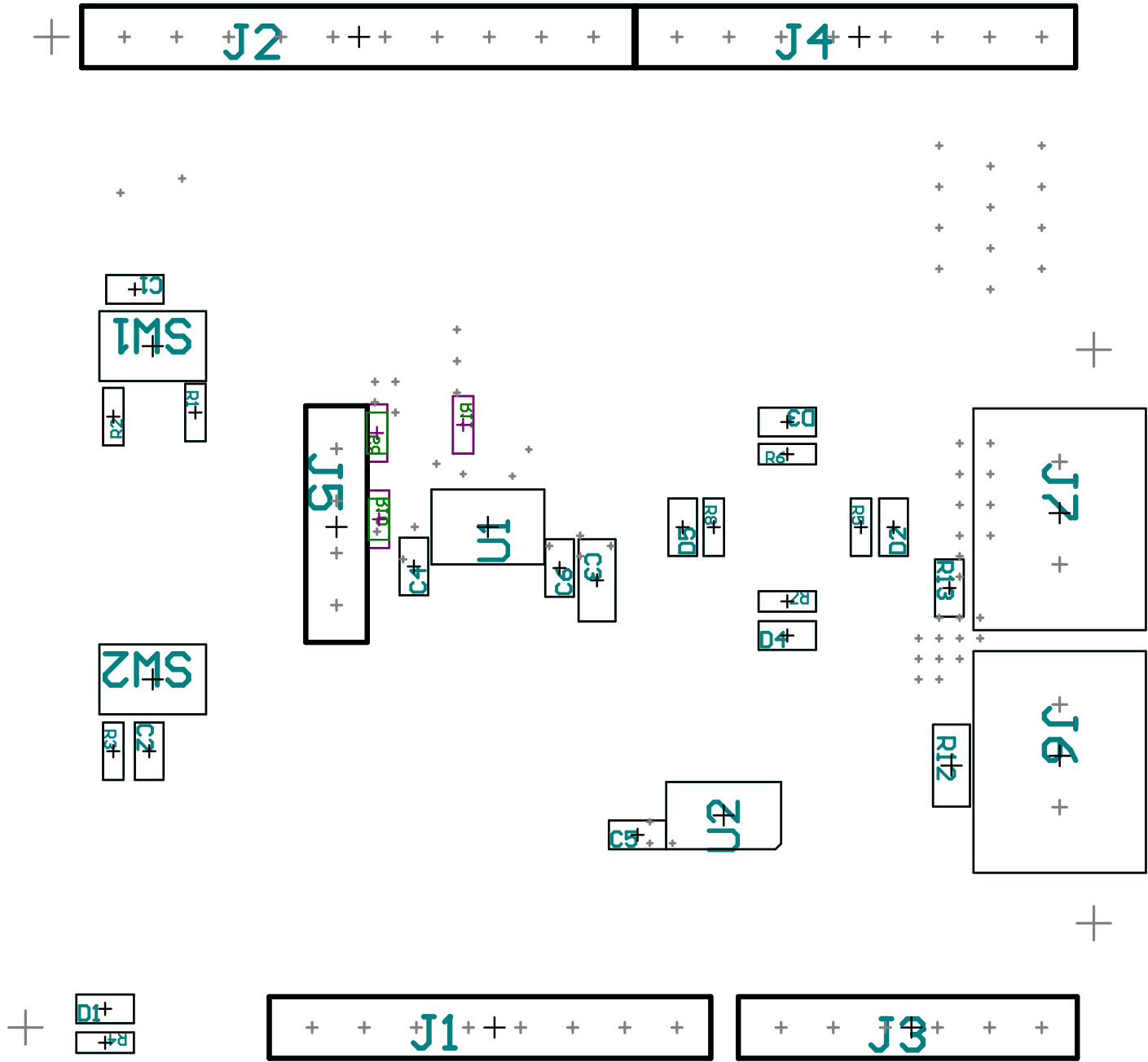
DOSYA ADI / FILE NAME Block_diagram.SchDoc		TANIM / DESCRIPTION I2C Shield	
Aslı Kurt		HAZIRLAYAN / PREPARED BY Aslı Kurt	
		YAYIN TARİHİ / REL. DATE 30.09.2024	BOYUT / SIZE A3 SAYFA / SHEET 2 / 4



This card is designed to be compatible with NUCLEO-F411RE development board. Connections are made based on pins compatible with Arduino UNO.

DOSYA ADI / FILE NAME Connectors.SchDoc		TANIM / DESCRIPTION I2C Shield	
<i>Aslı Kurt</i>		HAZIRLAYAN / PREPARED BY Aslı Kurt	
		YAYIN TARİHİ / REL. DATE 30.09.2024	BOYUT / SIZE A3
		SAYFA / SHEET 3 / 4	





Comment	Description	Designator	Footprint	LibRef	Quantity
CL21B104KBCNNNC	CAP CER 100nF %10 0805	C1, C2, C4, C5, C6	CAP_0805	CAP CER 100nF 0805	5
T491A106K010AT	Cap Tant Solid 10uF 10V A CASE 10% (3.2 X 1.6 X 1.6mm) SMD 3216-18 4 Ohm 125 C T/R	C3	CAP_1206_TANT	CAP TANT 10uF 1206	1
LH R974-LP-1	LED Uni-Color Hyper Red 660nm 2-Pin Chip 0805 (2012 Metric) T/R	D1, D5	LED_RED_0805	LED RED 0805	2
150080BS75000	LED BLUE CLEAR 0805 SMD	D2	LED_BLUE_0805	LED BLUE 0805	1
LTST-C171GKT	Green 0805 130° Min 5 mcd Typical 12 mcd Water Clear Lens SMT LED	D3	LED_GREEN_0805	LED GREEN 0805	1
LTST-C170KFKT	LED Uni-Color Orange 611nm 2-Pin Chip LED T/R / LED ORANGE CLEAR 0805 SMD	D4	LED_ORANGE_0805	LED ORANGE 0805	1
PPTC081LFBN-RC	Female, 8C, Straight, .100" CC; 3.20mm Tail, No Mt. 100u" Tin; PBT, Phos Bronze, 105 C	J1, J4	8x1 Female Header 2.54mm	8x1 Female Header 2.54mm	2
PPTC101LFBN-RC	10 Position Single Row 2.54mm Pitch Vertical Through Hole Socket Header	J2	10x1 Female Header 2.54mm	10x1 Female Header 2.54mm	1
PPTC061LFBN-RC	Female, 6C, Straight, .100" CC; 3.20mm Tail, No Mt. 100u" Tin; PBT, Phos Bronze, 105 C	J3	6x1 Female Header 2.54mm	6x1 Female Header 2.54mm	1
PPTC041LFBN-RC	CONN HEADER FEMALE 4POS. 1 TIN	J5	4x1 Female Header 2.54mm	4x1 Female Header 2.54mm	1
282836-2	Connector, Terminal Block; Wire Receptacle; 2 Pos.; 16-30 AWG; 0.197 in. CL; Sld	J6, J7	TERMINAL	2x1 TERMINAL 5mm	2
RC0805FR-07470RL	RES 470 OHM 1% 1/8W 0805	R1, R4, R5, R6, R7, R8	RES_0805	RES 470 OHM 0805	6
RC0805JR-0710KL	RES 10K OHM 5% 1/8W 0805	R2, R3, R11	RES_0805	RES 10K OHM 0805	3
RC0603JR-074K7L	RES 4K7 %5 OHM 0603 SMD	R9, R10	RES_0603	RES 4K7 OHM 0603	2
RL1206FR-070R01L	Res Thick Film 1206 0.01 Ohm 1% 0.25W (1/4W) ±1500ppm/°C Pad SMD Automotive T/R	R12	RES_1206	RES 10m OHM 1206	1
CC0805KRX7R9BB471	CAP CER 470PF 50V X7R 0805	R13	CAP_0805	CAP CER 470pF 0805	1
PTS815 SJK250 SMTR LFS	Microminiature Top Actuated Tactile Switch Momentary SPST-NO 50mA 12VDC Surface Mount T/R	SW1, SW2	BUTTON SMD	4.2mm x 3.2mm BUTTON	2
ADXL345BCCZ	Analog Devices - ADXL345BCCZ - Mems Accelerometer, 3-Axis, Digital, X, Y, Z ± 2G, ± 4G, ± 8G, ± 16G, 2 V, 3.6 V, LGA	U1	14-VFLGA	ADXL345BCCZ	1
LTC2990IMS#TRPBF	Ms-System Monitor/Other I2c Temperature, Voltage And Current Monitor	U2	MSOP-10	LTC2990IMS#TRPBF	1

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