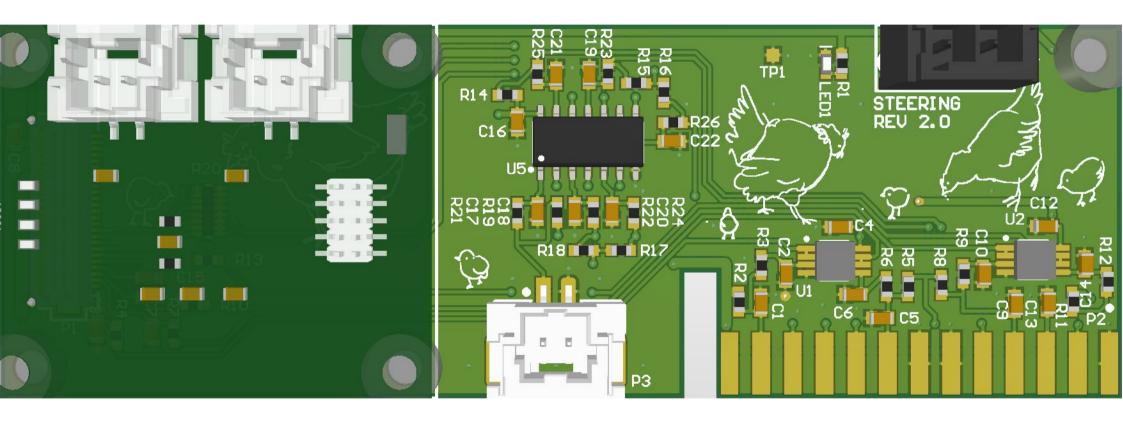
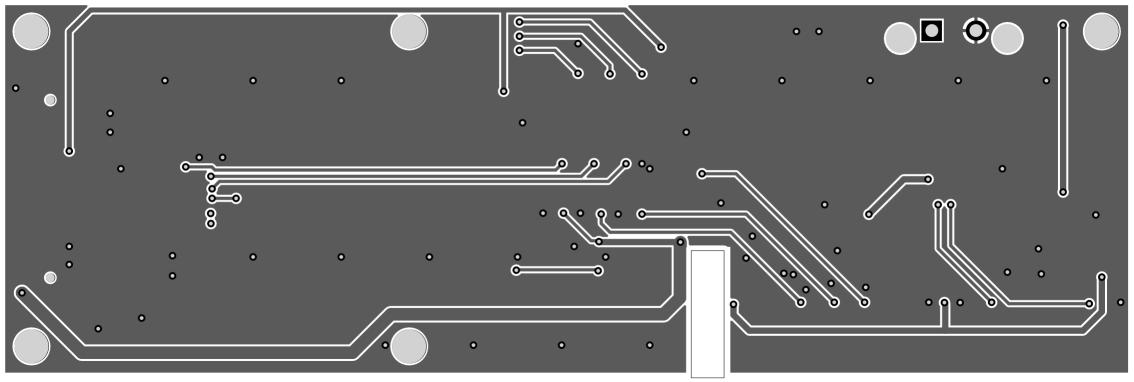


Bill of Materials Project: SXII_SteeringWheelInterfaceBoard.PrjPcb Revision: 3 Project Lead: Jenny Xia Generated On: 2019/3/6 16:40 Production Quantity: 1 Currency CAD Total Parts Count: 55



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Quantity	Supplier	Subtotal 1
CAP CER 10nF 50V 5% X7R 0603	C1, C3, C5, C7, C9, C11, C13, C15	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.48385	8	\$	3.87
CAP CER 0.1UF 50V 10% X7R 0603	C6, C10, C12, C14, C16, C17, C18, C19, C20, (Kyocera AVX	06035C-104KAT2A	Digi-Key	478-5052-1-ND	0.15456	13	\$	2.01
CAP CER 4.7UF 25V 10% X5R 0603	C8	Murata	GRM188R61E475KE11D	Digi-Key	490-7203-1-ND	0.49729	1	\$	0.50
LED GREEN CLEAR 2V 0603	LED1	Wurth Electronics	150060VS75000	Digi-Key	732-4980-1-ND	0.18816	1	\$	0.19
CONN 50POS Bergstak Plug 0.02"	P1	Amphenol FCI	10132797-055100LF	Digi-Key	609-5226-1-ND	1.88	1	\$	1.88
CONN 2POS DURA-CLIK 0.079" VERT	P3	Molex	560020-0220	Digi-Key	WM10862CT-ND	1.05	1	\$	1.05
CONN 2POS ULTRA-FIT 0.138"	P4	Molex	1722861302	Digi-Key	WM11673-ND	1.96	1	\$	1.96
RES 4.7K OHM 1% 1/10W 0603	R1	Yageo Phycomp	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	0.1344	1	\$	0.13
RES SMD 1K OHM 0.1% 1/10W 0603	R2, R5, R8, R11	Panasonic	ERA3AEB102V	Digi-Key	P1.0KDBCT-ND	0.47041	4	\$	1.88
RES SMD 15K OHM 1% 1/10W 0603	R3, R6, R9, R12, R21, R22, R23, R24, R25, R26	Yageo	RC0603FR-0715KL	Digi-Key	311-15.0KHRCT-ND	0.03226	10	\$	0.32
RES 100 OHM 1% 1/10W 0603	R4, R7, R10, R13	Yageo	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.1344	4	\$	0.54
RES 10K OHM 1% 1/10W 0603	R14, R15, R16, R17, R18, R19	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.1344	6	\$	0.81
RES ARRAY 10K OHM 5% 8RES EXB-2HV103JV	R20	Panasonic	EXB2HV103JV	Digi-Key	Y1103CT-ND	0.38977	1	\$	0.39
IC OP AMP DUAL GP RR 10MHZ 8-VSSOP	U1, U2	Texas Instruments	OPA2197IDGKR	Digi-Key	296-47349-1-ND	3.24	2	\$	6.48
IC INVERTER SCHMITT 6CH 14TSSOP	U5	STMicroelectronics	M74HC14YTTR	Digi-Key	497-14387-1-ND	0.59137	1	\$	0.59
							Total:	\$	22.60





Electrical Rules Check Report

Class	Document	Message
Warning	Steering Wheel Interface Analog Inputs.SchDoc	Net NetC2_1 has no driving source (Pin C2-1,Pin R3-1,Pin U1-3)
Warning	Steering Wheel Interface Analog Inputs.SchDoc	Net NetC6_1 has no driving source (Pin C6-1,Pin R6-1,Pin U1-5)
Warning	Steering Wheel Interface Analog Inputs.SchDoc	Net NetC10_1 has no driving source (Pin C10-1,Pin R9-1,Pin U2-3)
Warning	Steering Wheel Interface Analog Inputs.SchDoc	Net NetC14_1 has no driving source (Pin C14-1,Pin R12-1,Pin U2-5)
Warning	Steering Wheel Interface Digital Inputs.SchDoc	Off grid Net Label CC_ON/O\F\F\ at 2514.02mil,2900mil

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Design Rules Verification ReportFilename : C:\Users\jieni\Documents\Github\hardware\MSXII_SteeringWheelInterfaceBoard\ Warnings 0 Rule Violations 70

Warnings Total

Rule Violations	
Clearance Constraint (Gap=0.152mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	
Un-Routed Net Constraint ((All))	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.152mm) (Max=2.54mm) (Preferred=0.254mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Minimum Annular Ring (Minimum=0.06mm) (All)	0
Hole Size Constraint (Min=0.3mm) (Max=6.3mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.178mm) (IsPad),(All)	31
Silk to Silk (Clearance=0.254mm) (All),(All)	9
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	30
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	70

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Silk To Solder Mask (Clearance=0.178mm) (IsPad),(All) Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad C11-1(11.325mm,8.1mm) on Top Layer And Text "C7" (11.75mm,7.95mm) Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad C11-2(12.675mm,8.1mm) on Top Layer And Text "C7" (11.75mm,7.95mm) Silk To Solder Mask Clearance Constraint: (0.175mm < 0.178mm) Between Pad C13-1(84mm,7mm) on Top Layer And Text "R11" (84.75mm,7.5mm) on Silk To Solder Mask Clearance Constraint: (0.092mm < 0.178mm) Between Pad C3-1(7.8mm,6.275mm) on Top Layer And Text "C3" (7.266mm,8.225mm) Silk To Solder Mask Clearance Constraint: (0.092mm < 0.178mm) Between Pad C7-1(12.25mm,6mm) on Top Layer And Text "C7" (11.75mm,7.95mm) on Silk To Solder Mask Clearance Constraint: (0.005mm < 0.178mm) Between Pad C9-1(81.38mm,6.915mm) on Top Layer And Text "C9" (80mm,7.75mm) or Silk To Solder Mask Clearance Constraint: (0.122mm < 0.178mm) Between Pad C9-2(81.38mm,8.265mm) on Top Layer And Text "C9" (80mm,7.75mm) or Silk To Solder Mask Clearance Constraint: (0.163mm < 0.178mm) Between Pad P3-3(40mm,3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad R10-1(14.825mm,7.5mm) on Top Layer And Text "C11" Silk To Solder Mask Clearance Constraint: (0.025mm < 0.178mm) Between Pad R10-1(14.825mm,7.5mm) on Top Layer And Text "R7" (13.5mm,7.95mm) Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad R10-2(16.375mm,7.5mm) on Top Layer And Text "C11" Silk To Solder Mask Clearance Constraint: (0.16mm < 0.178mm) Between Pad R11-1(86mm,8.55mm) on Top Layer And Text "C14" (87.46mm,7.4mm) on Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad R11-2(86mm,7mm) on Top Layer And Text "R11" (84.75mm,7.5mm) on Silk To Solder Mask Clearance Constraint: (0.105mm < 0.178mm) Between Pad R23-2(48.763mm,26.762mm) on Top Layer And Text "R23" Silk To Solder Mask Clearance Constraint: (0.138mm < 0.178mm) Between Pad R25-2(43.125mm,26.73mm) on Top Layer And Text "R25" Silk To Solder Mask Clearance Constraint: (0.117mm < 0.178mm) Between Pad R4-1(9.4mm,5.875mm) on Top Layer And Text "R4" (9.366mm,7.825mm) Silk To Solder Mask Clearance Constraint: (0.117mm < 0.178mm) Between Pad R7-1(14mm,6mm) on Top Layer And Text "R7" (13.5mm,7.95mm) on Top Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-1(43.363mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-10(48.443mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-11(47.173mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-12(45.903mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-13(44.633mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-14(43.363mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-2(44.633mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-3(45.903mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-4(47.173mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-5(48.443mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-6(49.713mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-7(50.983mm,18.3mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-8(50.983mm,22.7mm) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (Collision < 0.178mm) Between Pad U5-9(49.713mm,22.7mm) on Top Layer And Track

Silk to Silk (Clearance=0.254mm) (All).(All)

Silk To Silk Clearance Constraint: (0.18mm < 0.254mm) Between Arc (42.588mm,18.3mm) on Top Overlay And Text "U5" (40.75mm,18mm) on Top
Silk To Silk Clearance Constraint: (0.15mm < 0.254mm) Between Region (2 hole(s)) Top Overlay And Text "U2" (80.75mm,14mm) on Top Overlay Silk Texl
Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "C11" (14.325mm,7.685mm) on Top Overlay And Text "R7" (13.5mm,7.95mm) on
Silk To Silk Clearance Constraint: (0.25mm < 0.254mm) Between Text "C18" (40mm,16mm) on Top Overlay And Text "R19" (38.8mm,15.934mm) on Top
Silk To Silk Clearance Constraint: (0.227mm < 0.254mm) Between Text "C20" (52.75mm,16mm) on Top Overlay And Text "R22" (51.573mm,16mm) on Top
Silk To Silk Clearance Constraint: (0.164mm < 0.254mm) Between Text "C3" (7.266mm,8.225mm) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "C3" (7.266mm,8.225mm) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "C3" (7.266mm,8.225mm) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "C3" (7.266mm,8.225mm) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 0.254mm) Between Text "C3" (7.266mm,8.225mm) on Top Overlay And Track

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Board Outline Clearance(Cutout Edge): (0.37mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Cutout Edge): (0.37mm < 0.406mm) Between Board Edge And Pad P2-1(89mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-11(63.36mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-11(63.36mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-12(61.06mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-13(68.52mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-3(83.92mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-3(83.92mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-3(83.92mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-5(78.84mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-6(76.3mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-7(73.76mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-7(86.86mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Pad P2-9(86.86	D. and Oleman Complete (A. 1907)
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Board Outline Clearance(Outline Edge): (0.375mm < 0.406mm) Between Board Cutout (Multi-Layer)Region (0 hole(s)) Multi-Layer And Track Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-1(89mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-11(63.6mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-11(63.6mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-112(61.06mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-13(58.52mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-13(58.52mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-2(86.46mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-3(83.92mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-5(78.84mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-5(78.84mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-6(76.3mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-8(71.22mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.3mm < 0.406mm) Between Board Edge And Pad P2-8(71.22mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Pad P2-9(68.68mm,2.8mm) on Top Layer Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Taxt "C21" (44.25mm,29.5mm) on Top Overlay Board Outline Clearance(Outline Edge): (0.35mm < 0.406mm) Between Board Edge And Taxt "C21" (44.25mm,29.5mm) on Top Overlay Board Outline Clearance(O	
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	Board Outline Clearance(Outline Edge): (Collision < 0.406mm) Between Board Edge And Track (81.33mm,24.64mm) (81.33mm,29.94mm) on Top Overlay

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