

VALIDATION TEST OF INTERCONNECTIO BOX 200-1000-010

VALIDATION TEST OF INTERCONNECTIO BOX 200-1000-010									
#	Test	Stimulus	Measure	Action	Circuits	Signals Validation	Limits	Comments	
1	ADCO	Digital PORTS Test 0-0x5	SV PWR	Open all relay (Default)	Current Module INA219	SV_PWA.ADC0	SV +/- 0.3V (ADC2 +/- 2.5V +/- 0.2V)	Verify SV and ADC0. Check if red ON on Board to validate SV	
2	Digital PORTS Test 0-0x5	PORT0 Output	PORT0 Input	Open all relay (Default)	Buffer	PORT0, PORT1	Validate Port 0 and Port1		
3	Digital PORTS Test 1-0x5	PORT1 Output	PORT1 Input	Open all relay (Default)		PORT0, PORT1	Validate Port 0 and Port1		
4	Digital PORTS Test 1-0x5	PORT1 Output	PORT1 Input	Open all relay (Default)		PORT0, PORT1	Validate Port 0 and Port1		
5	Digital Handshake Test 0	CH1L output	FLAG Input	Open all relay (Default)		CH1L, FLAG	Validate state of the signals		
6	Digital Signal Test 8-0x5	CH1L output	FLAG Input	Open all relay (Default)		CH1L, FLAG	Validate state of the signals		
7	Digital Signal Test 8-0x5	J1_K08.J1_09J.M1_108.M1_09 Output	Pico	Open all relay (Default)		J1_K08.J1_09J.M1_108.M1_09	Set signal to D05. Read Pico = 0x0A		
8	Open Collector C02 Close Test	SCPI command	ADC0	Close K16 (VMS1) Drive C01 + High		ADC0	Read 0.2V +/- 0.2V	Open collector transistor activated	
9	Open Collector C02 Close Test	SCPI command	ADC0	Close K16 (VMS1) Drive C01 + Low		ADC0	Read 0.2V +/- 0.2V	Open collector transistor not activated	
10	Open Collector C02 Close Test	SCPI command	ADC0	Close K15 (VMS1) Drive C02 + High		ADC0	Read 0.2V +/- 0.2V	Open collector transistor activated	
11	Open Collector C02 Close Test	SCPI command	ADC0	Close K15 (VMS1) Drive C02 + Low		ADC0	Read 0.2V +/- 0.2V	Open collector transistor not activated	
12	Open Collector C03 Close Test	SCPI command	ADC0	Close K15 (VMS1) Drive C02 + High		ADC0	Read 0.2V +/- 0.2V	Open collector transistor activated	
13	Open Collector C03 Close Test	SCPI command	ADC0	Close K15 (VMS1) Drive C02 + Low		ADC0	Read 0.2V +/- 0.2V	Open collector transistor not activated	
14	ADCL	DAC_VOUT set to 3V	SV PWR	Close K2, K13	Current Module INA219	SV_PWA.ADC1	SV +/- 0.3V (ADC2 +/- 2.5V +/- 0.3/-0.4V)	Verify ADC1 input	
15	DAC Input HI Voltage	DAC_VOUT set to 3V	SV PWR	Close K2, K13	DAC Module Current Module INA219	DAC_VOUT.ADC0	Read 3.0V +/- 0.2V	Validate DAC output with high voltage	
16	DAC Output Low Voltage	DAC_VOUT set to 0.25V	SV PWR	Close K2, K13		DAC_VOUT.ADC0	ADC1 +/- 0.25V +/- 0.08/0.02V	Validate DAC output with low voltage	
17	Power measurement Test - Bus Voltage	SV PWR	INA219 current	Open all relay (Default)			Read 10 ohm current limit resistor	Validate 10 ohm current limit resistor	
18	Power measurement Test - Short Voltage	SV PWR	INA219 current	Close K4			Read 50mA +/- 7.5mA	Validate 10 ohm current limit resistor	
19	Power measurement Test - Current	SV PWR	INA219 current	Close K4			Read 500mA +/- 50 mA	Validate 10 ohm current limit resistor	
20	Power measurement Test - Current	SV PWR	INA219 current	Close K4			Read 2.5V +/- 0.2V	Validate 10 ohm current limit resistor	
21	10 Ohms resistance test	SV PWR	INA219 current	Close K4 (10 ohm), K7, K11(P56), K15, K16(VMS)	Current Module INA219	PWR_RLS, PWR_RLS_1	Read 50mA +/- 50mA	Validate resistance contact of the two LPR in series	
22	Low Power Relay NC1 Test	SV PWR	INA219 current	Close K10 (P52), Open LPR1, Close LPR2		K1_LP_C1, K1_LP_NC1, K2_LP_ND1, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
23	Low Power Relay NC2 Test	SV PWR	INA219 current	Close K10 (P52), Open LPR2, Close LPR1		K1_LP_C1, K1_LP_NC2, K2_LP_ND2, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
24	Low Power Relay Opn1 Test	SV PWR	INA219 current	Close K10 (P54), Open LPR1, Open LPR1		K1_LP_C1, K1_LP_NC2, K2_LP_ND2, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
25	Low Power Relay NC2 Test	SV PWR	INA219 current	Close K8 (P53), Open LPR1, Close LPR2		K1_LP_C1, K1_LP_NC2, K2_LP_ND2, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
26	Low Power Relay NC2 Test	SV PWR	INA219 current	Close K8 (P53), Open LPR2, Close LPR1		K1_LP_C1, K1_LP_NC2, K2_LP_ND2, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
27	Low Power Relay Opn2 Test	SV PWR	INA219 current	Close K8 (P53), Open LPR1, Open LPR2		K1_LP_C1, K1_LP_NC2, K2_LP_ND2, K2_LP_C1	Read 50mA +/- 50mA	Validate resistance contact	
28	HPR Close Test	SV PWR	INA219 current	Close K4 (10 ohm), K7 (P55), Close HPR	Current Module INA219	K3_HP_ND1, K3_HP_ND2, K3_HP_C1, K3_HP_C2	Read 200mA +/- 15mA	Validate open relay resistance contact	
29	HPR Open Test	SV PWR	INA219 current	Close K4 (10 ohm), K8, K10 (P54), Close HPR	Current Module INA219	K3_HP_ND1, K3_HP_ND2, K3_HP_C1, K3_HP_C2	Read 50mA +/- 0.2mA	Validate open relay resistance contact	
30	SR Open Test	SV PWR	INA219 current	Close K4 (10 ohm), K8, K10 (P54), Close SSR	Current Module INA219	SRR1_PDS, SRR1_NEG	Read 50mA +/- 15mA	Validate open relay resistance contact	
31	Relay BK1-BK2 CH0H - Close Test	SV PWR	INA219 current	K7, KRP1(P57), Close Relay BK1-CH0, BK2-CH0	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0, H_BK2_CH0	Read 50mA +/- 0.2mA	Validate relay contact - close	
32	Relay BK1-BK2 CH0H - Open Test	SV PWR	INA219 current	K7, KRP1(P57), Close Relay BK1-CH0, Open BK2-CH0	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0, H_BK2_CH0	Read 50mA +/- 0.2mA	Validate relay contact - close	
33	Relay BK1-BK2 CH0L - Close Test	SV PWR	INA219 current	K7, KRP1(P57), Close Relay BK1-CH0L, BK2-CH0L	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0L, H_BK2_CH0L	Read 50mA +/- 0.2mA	Validate relay contact - close	
34	Relay BK1-BK2 CH0L - Open Test	SV PWR	INA219 current	K7, KRP1(P57), Close Relay BK1-CH0L, Open BK2-CH0L	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0L, H_BK2_CH0L	Read 50mA +/- 0.2mA	Validate relay contact - close	
35	Relay BK1-BK2 CH1 - Close Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Close Relay BK1-CH1, BK2-CH1	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH1, L_BK2_CH1	Read 50mA +/- 0.2mA	Validate relay contact - close	
36	Relay BK1-BK2 CH1 - Open Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Open Relay BK1-CH1, BK2-CH1	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH1, L_BK2_CH1	Read 50mA +/- 0.2mA	Validate relay contact - close	
37	Relay BK1-BK2 CH2 - Close Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Close Relay BK1-CH2, BK2-CH2	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH2, L_BK2_CH2	Read 50mA +/- 0.2mA	Validate relay contact - close	
38	Relay BK1-BK2 CH2 - Open Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Open Relay BK1-CH2, BK2-CH2	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH2, L_BK2_CH2	Read 50mA +/- 0.2mA	Validate relay contact - close	
39	Repeat for other Channel CH3-CH7	SV PWR	INA219 current	K7, K8, K12 (P58), Close Relay BK1-CH3, Open BK1-CH3	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH3, L_BK2_CH3	Read 50mA +/- 0.2mA	Validate relay contact - close	
40	Relay BK1-BK2 CH0H - Close Test	SV PWR	INA219 current	K7, KRP1(P57), K14, Close Relay BK1-CH0, BK2-CH0, BK1-CH0, BK2-CH0	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0, H_BK2_CH0	Read 50mA +/- 0.2mA	Validate relay contact - close	
41	Relay BK1-BK2 CH0H - Open Test	SV PWR	INA219 current	K7, KRP1(P57), K14, Open Relay BK1-CH0, BK2-CH0, BK1-CH0, BK2-CH0	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0, H_BK2_CH0	Read 50mA +/- 0.2mA	Validate relay contact - close	
42	Relay BK1-BK2 CH0L - Close Test	SV PWR	INA219 current	K7, KRP1(P57), K14, Close Relay BK1-CH0L, BK2-CH0L, BK1-CH0L, BK2-CH0L	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0L, H_BK2_CH0L	Read 50mA +/- 0.2mA	Validate relay contact - close	
43	Relay BK1-BK2 CH0L - Open Test	SV PWR	INA219 current	K7, KRP1(P57), K14, Open Relay BK1-CH0L, BK2-CH0L, BK1-CH0L, BK2-CH0L	Current Module INA219	BK1_COM, H_BK2_COM, H_BK1_CH0L, H_BK2_CH0L	Read 50mA +/- 0.2mA	Validate relay contact - close	
44	Relay BK1-BK2 CH1 - Close Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Close Relay BK1-CH1, BK2-CH1, BK1-CH1, BK2-CH1	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH1, L_BK2_CH1	Read 50mA +/- 0.2mA	Validate relay contact - close	
45	Relay BK1-BK2 CH1 - Open Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Open Relay BK1-CH1, BK2-CH1, BK1-CH1, BK2-CH1	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH1, L_BK2_CH1	Read 50mA +/- 0.2mA	Validate relay contact - close	
46	Relay BK1-BK2 CH2 - Close Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Close Relay BK1-CH2, BK2-CH2, BK1-CH2, BK2-CH2	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH2, L_BK2_CH2	Read 50mA +/- 0.2mA	Validate relay contact - close	
47	Relay BK1-BK2 CH2 - Open Test	SV PWR	INA219 current	K7, K8, K12 (P58), K14, Open Relay BK1-CH2, BK2-CH2, BK1-CH2, BK2-CH2	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH2, L_BK2_CH2	Read 50mA +/- 0.2mA	Validate relay contact - close	
48	Repeat for other Channel CH3-CH7	SV PWR	INA219 current	K7, K8, K12 (P58), Close Relay BK1-CH3, Open BK1-CH3	Current Module INA219	BK1_COM, L_BK2_COM, L_BK1_CH3, L_BK2_CH3	Read 50mA +/- 0.2mA	Validate relay contact - close	
49	2C Bus GPIO #6 Master	Send command to check lines using IO modes	Digital State	GPIO IN DEV0-GP7	2C Data Master Pico	read 1			
50	2C Bus GPIO #6 Slave	Send command to check lines using IO modes	Digital State	GPIO IN DEV0-GP7	2C CLOCK Master Pico	read 1			
51	Set Selftest device status	Check I2C communication with selftest	Read I2C byte	COMXIC2-READ1EN7 10.6	2C Communication	read 3			
52	Selftest Master version	Check I2C communication with selftest	Read I2C byte	COMXIC2-READ1EN7 10.6	2C Communication	read 3			
53	2C Bus GPIO #6 Selftest	Send command to read GPIO function of line	Read I2C byte	COMXIC2-READ1EN7 75.6	2C Data Selftest Pico	read 0			
54	2C Bus GPIO #7 Selftest	Send command to read GPIO function of line	Read I2C byte	COMXIC2-READ1EN7 75.7	2C CLOCK Selftest Pico	read 0			
55	SPI Bus GPIO #2 in digital mode	Set Selftest GPIO2 = 0	Digital State	Read master Pico level on GPIO2 (GPIO-IN-DEV0-GP2?)	SPI_CLK	read 0			
56	SPI Bus GPIO #2 in digital mode	Set Selftest GPIO2 = 1	Digital State	Read master Pico level on GPIO2 (GPIO-IN-DEV0-GP2?)	SPI_CLK	read 1			
57	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 0	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 0			
58	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 1	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 1			
59	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 0	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 0			
60	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 1	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 1			
61	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 0	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 0			
62	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 1	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 1			
63	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 0	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 0			
64	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 1	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 1			
65	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 0	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 0			
66	SPI Bus GPIO #5 in digital mode	Set Selftest GPIO5 = 1	Digital State	Read master Pico level on GPIO5 (GPIO-IN-DEV0-GP5?)	SPI_TX	read 1			
67	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 0	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 0			
68	SPI Bus GPIO #8 in digital mode	Set Selftest GPIO8 = 1	Digital State	Read master Pico level on GPIO8 (GPIO-IN-DEV0-GP8?)	SPI_RX	read 1			
69	SPI Communication 8 bits, Mode 0	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 84 (0x5A)			
70	SPI Communication 8 bits, Mode 1	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 80 (0x5A)			
71	SPI Communication 8 bits, Mode 2	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
72	SPI Communication 8 bits, Mode 3	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
73	SPI Communication 8 bits, Mode 4	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
74	SPI Communication 8 bits, Mode 5	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
75	SPI Communication 8 bits, Mode 6	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
76	SPI Communication 8 bits, Mode 7	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
77	SPI Communication 8 bits, Mode 8	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
78	SPI Communication 8 bits, Mode 9	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
79	SPI Communication 8 bits, Mode 10	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
80	SPI Communication 8 bits, Mode 11	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
81	SPI Communication 8 bits, Mode 12	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
82	SPI Communication 8 bits, Mode 13	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
83	SPI Communication 8 bits, Mode 14	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
84	SPI Communication 8 bits, Mode 15	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
85	SPI Communication 8 bits, Mode 16	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
86	SPI Communication 8 bits, Mode 17	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
87	SPI Communication 8 bits, Mode 18	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
88	SPI Communication 8 bits, Mode 19	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
89	SPI Communication 8 bits, Mode 20	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
90	SPI Communication 8 bits, Mode 21	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
91	SPI Communication 8 bits, Mode 22	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
92	SPI Communication 8 bits, Mode 23	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
93	SPI Communication 8 bits, Mode 24	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
94	SPI Communication 8 bits, Mode 25	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
95	SPI Communication 8 bits, Mode 26	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
96	SPI Communication 8 bits, Mode 27	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
97	SPI Communication 8 bits, Mode 28	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
98	SPI Communication 8 bits, Mode 29	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
99	SPI Communication 8 bits, Mode 30	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
100	SPI Communication 8 bits, Mode 31	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
101	SPI Communication 8 bits, Mode 32	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
102	SPI Communication 8 bits, Mode 33	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
103	SPI Communication 8 bits, Mode 34	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
104	SPI Communication 8 bits, Mode 35	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
105	SPI Communication 8 bits, Mode 36	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
106	SPI Communication 8 bits, Mode 37	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
107	SPI Communication 8 bits, Mode 38	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
108	SPI Communication 8 bits, Mode 39	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
109	SPI Communication 8 bits, Mode 40	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
110	SPI Communication 8 bits, Mode 41	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			
111	SPI Communication 8 bits, Mode 42	Write byte 0x5A, Read Reverse value in decimal	Read SPI bytes	Write byte 0x5A, Read Reverse value in decimal	SPI_CLK, SPI_TX, SPI_RX, SPI_CS	read 130 (0x5A)			

SELFTEST BOARD BLOCK DIAGRAM

