

PSE Conformance Test Suite

May 5 2020 3:51 PM
 Port Count 6 5 5 5 5 5 5 5 5 5 8
 Loop Count 5 5 5 5 5 5 5 5 5 5 1
 PSE Tested: Sample Type-4 PSE



Sifos Technologies
 Safety Index: 100%
 Error Log: None

802.3bt 4Pr Conformance Report
 version 5.2.00
 PSE Type: 4 MDI-X+MDI
 Interop Index: 100%
 report version 5.2.00

Chassis ID: 192.168.221.103		PSA-3000 Ports								UNITS	Min	Max	Average	Low Limit	P/F	High Limit	P/F
TestLoop: 1	1-1	1-2	2-1	2-2	3-1	3-2	4-1	4-2									
Test: det_v																	
Open Circuit Voc A=	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	volts	10.4	10.4	10.4	0	Pass	30	Pass	
Open Circuit Voc B=	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	volts	10.4	10.4	10.4	0	Pass	30	Pass	
Backoff Voltage A=	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	volts	0.1	0.2	0.2	0	Pass	2.8	Pass	
Backoff Voltage B=	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	volts	0.1	0.2	0.2	0	Pass	2.8	Pass	
Backoff Voltage Ss=	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	volts	0.3	0.3	0.3	0	Pass	2.8	Pass	
Max Det Step V A=	8.01	8.01	8	8	8.01	8	8	8.01	volts	8	8.01	8.01	3.8	Pass	10	Pass	
Max Det Step V B=	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.98	volts	7.98	7.99	7.99	3.8	Pass	10	Pass	
Min Det Step V A=	3.93	3.93	4.02	4.03	3.93	3.93	4.02	4.03	volts	3.93	4.03	3.98	2.8	Pass	9	Pass	
Min Det Step V B=	3.96	3.96	4.01	4	3.96	3.96	4.01	4	volts	3.96	4.01	3.98	2.8	Pass	9	Pass	
Det Step Changes A=	3	3	3	3	3	3	3	3	****	3	3	3	1	Pass	9	Pass	
Det Step Changes B=	3	3	3	3	3	3	3	3	****	3	3	3	1	Pass	9	Pass	
Min Step DV A=	4.08	4.08	3.98	3.97	4.07	4.08	3.98	3.97	volts	3.97	4.08	4.03	1	Pass	7.2	Pass	
Min Step DV B=	4.03	4.04	3.98	3.99	4.03	4.04	3.98	3.98	volts	3.98	4.04	4.01	1	Pass	7.2	Pass	
Pre-Det CC Step V A=	0	0	0	0	0	1.69	0	0	volts	0	1.69	0.21	0	Pass	10	Pass	
Pre-Det CC Step V B=	0	0	0	0	0	0	0	0	volts	0	0	0	0	Pass	10	Pass	
Test: det_cc																	
Presumed CC DET SEQ=	2	2	2	2	2	2	2	2	****	2	2	2	0	Pass	3	Pass	
Conn Chk SS V A=	8.11	8.18	8.14	8.18	8.18	8.11	8.14	8.21	volts	8.11	8.21	8.16	2.8	Pass	10	Pass	
Conn Chk SS V B=	8.26	8.26	8.26	8.18	8.19	8.21	8.14	8.18	volts	8.14	8.26	8.21	2.8	Pass	10	Pass	
Conn Chk DS V A=	8.11	8.3	8.1	8.24	8.11	8.27	8.11	8.22	volts	8.1	8.3	8.18	2.8	Pass	10	Pass	
Conn Chk DS V B=	8.1	8.21	8.18	8.16	8.14	8.21	8.16	8.14	volts	8.1	8.21	8.16	2.8	Pass	10	Pass	
High Signature CC A=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
High Signature CC B=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
4Pair Start Fail=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass	
Test: det_i																	
Isc Init A=	0.24	0.26	0.25	0.29	0.22	0.28	0.23	0.22	mA	0.22	0.29	0.25	0	Pass	5	Pass	
Isc Init B=	0.22	0.22	0.22	0.24	0.24	0.22	0.22	0.22	mA	0.22	0.24	0.23	0	Pass	5	Pass	
Isc Det A=	0.24	0.26	0.25	0.29	0.22	0.24	0.23	0.22	mA	0.22	0.29	0.24	0	Pass	5	Pass	
Isc Det B=	0.22	0.22	0.22	0.24	0.24	0.22	0.22	0.22	mA	0.22	0.24	0.23	0	Pass	5	Pass	
Det Slew A=	0.0048	0.0052	0.005	0.0058	0.0044	0.0048	0.0046	0.0044	Vusec	0.0044	0.0058	0.0049	0	Pass	0.1	Pass	
Det Slew B=	0.0044	0.0044	0.0044	0.0048	0.0048	0.0044	0.0044	0.0044	Vusec	0.0044	0.0048	0.0045	0	Pass	0.1	Pass	
Test: det_range																	
Rgood Max Single=	29	29	29	29	29	29	29	29	Kohm	29	29	29	27	Pass	32	Pass	
Rgood Min Single=	17	17	17	17	17	17	17	17	Kohm	17	17	17	16	Pass	19	Pass	
Cgood Max Single=	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	uF	0.1	0.1	0.1	0	Pass	10	Pass	
Rgood Max Dual A=	29	29	29	29	29	29	29	29	Kohm	29	29	29	27	Pass	32	Pass	
Rgood Max Dual B=	29	29	29	29	29	29	29	29	Kohm	29	29	29	27	Pass	32	Pass	
Rgood Min Dual A=	17	17	17	17	17	17	17	17	Kohm	17	17	17	16	Pass	19	Pass	
Rgood Min Dual B=	17	17	17	17	17	17	17	17	Kohm	17	17	17	16	Pass	19	Pass	
Cgood Max Dual A=	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	uF	0.1	0.1	0.1	0	Pass	10	Pass	
Cgood Max Dual B=	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	uF	0.1	0.1	0.1	0	Pass	10	Pass	
Test: det_time																	
Detect Time Tdet A=	312.5	386.7	386.7	314.5	312.5	386.7	386.7	314.5	msec	312.5	386.7	350.1	0	Pass	500	Pass	
Detect Time Tdet B=	386.7	310.5	314.5	386.7	386.7	310.5	314.5	386.7	msec	310.5	386.7	349.6	0	Pass	500	Pass	
Backoff Time SS=	675.8	677.7	677.7	675.8	675.8	677.7	675.8	675.8	msec	675.8	677.7	675.5	0	Pass	9999	Pass	
Det+CC Time=	441.4	441.4	445.3	441.4	441.4	445.3	441.4	445.3	msec	441.4	445.3	442.4	0	Pass	500	Pass	
Test: det_resource																	
PSE Detect Source=	1	1	1	1	1	1	1	1	****	1	1	1	0	Pass	1	Pass	
PSE Source Zout A=	300	300	300	300	300	300	300	300	Kohm	300	300	300	45	Pass	300	Pass	
PSE Source Zout B=	300	300	300	300	300	300	300	300	Kohm	300	300	300	45	Pass	300	Pass	
Test: cc_response																	
Single Sig Response=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
Dual Sig Response=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
2Fair PD A=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	2	Pass	
2Fair PD B=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	2	Pass	
Test: class_v																	
Vclass max SS=	19.2	19.2	19.3	19.3	19.2	19.2	19.3	19.3	volts	19.2	19.3	19.3	15.5	Pass	20.5	Pass	
Vclass min SS=	17.5	17.5	17.6	17.6	17.5	17.5	17.6	17.6	volts	17.5	17.6	17.6	15.5	Pass	20.5	Pass	
Vmark SS=	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	volts	8.9	8.9	8.9	7	Pass	10	Pass	
Vreset SS=	-1	-1	-1	-1	-1	-1	-1	-1	****	-1	-1	-1	0	Pass	2.8	Pass	
Vclass max DSA=	19.3	19.3	19.3	19.4	19.2	19.3	19.3	19.3	volts	19.2	19.4	19.3	15.5	Pass	20.5	Pass	
Vclass max DSB=	19.2	19.2	19.3	19.3	19.2	19.2	19.3	19.3	volts	19.2	19.3	19.3	15.5	Pass	20.5	Pass	
Vclass min DSA=	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	volts	17.6	17.6	17.6	15.5	Pass	20.5	Pass	
Vclass min DSB=	17.5	17.5	17.6	17.6	17.5	17.5	17.6	17.6	volts	17.5	17.6	17.6	15.5	Pass	20.5	Pass	
Vmark DSA=	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	volts	8.8	8.8	8.8	7	Pass	10	Pass	
Vmark DSB=	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	volts	8.8	8.8	8.8	7	Pass	10	Pass	
Vreset DSA=	-1	-1	-1	-1	-1	-1	-1	-1	****	-1	-1	-1	-1	Pass	2.8	Pass	
Vreset DSB=	-1	-1	-1	-1	-1	-1	-1	-1	****	-1	-1	-1	-1	Pass	2.8	Pass	
Test: class_time																	
Class Probe SS=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
EV Count 7 SS=	5	5	5	5	5	5	5	5	Events	5	5	5	1	Pass	5	Pass	
Long EVL Time SS=	101.6	101.6	103.5	101.6	103.5	101.6	101.6	101.6	msec	101.6	103.5	102.1	88	Pass	105	Pass	
Min Class EV Time SS=	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	msec	11.7	11.7	11.7	6	Pass	20	Pass	
Max Class EV Time SS=	11.8	13.7	11.8	11.8	11.8	11.8	11.8	11.8	msec	11.8	13.7	12	6	Pass	20	Pass	
Min Mark EV Time SS=	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	msec	7.8	7.8	7.8	6	Pass	12	Pass	
Max Mark EV Time SS=	9.8	9.8	9.7	9.8	9.7	9.8	9.8	9.8	msec	9.7	9.8	9.8	6	Pass	12	Pass	
Final Mark EV Time SS=	21.5	21.5	23.4	21.5	23.4	21.5	21.5	21.5	msec	21.5	23.4	22.2	6	Pass	256	Pass	
Cl Prb Reset Time SS=	-1	-1	-1	-1	-1	-1	-1	-1	****	-1	-1	-1	15	Pass	10000	Pass	
Class Probe DA=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
EV Count 5D DA=	4	4	4	4	4	4	4	4	Events	4	4	4	1	Pass	4	Pass	
Long EVL Time DA=	93.8	91.8	91.8	93.8	93.7	91.8	93.8	91.8	msec	91.8	93.8	92.8					

PSE Conformance Test Suite

May 5 2020 3:51 PM

Port Count: 6 5 5 5 5 5 5 5 5 5 8
 Loop Count: 5 5 5 5 5 5 5 5 5 5 1
 PSE Tested: Sample Type-4 PSE



802.3bt 4Pr Conformance Report
 version 5.2.00
 PSE Type: 4 MDI-X+MDI
 Safety Index: 100% Interop Index: 100%
 Error Log: None
 report version 5.2.00

Chassis ID: 192.168.221.103

Test/Loop: 1	PSA-3000 Ports								UNITS	Min	Max	Average	Low Limit	P/F	High Limit	P/F	
	1-1	1-2	2-1	2-2	3-1	3-2	4-1	4-2									
Test: class_err																	
Class 11m A=	61.5	63.3	61.5	61.6	61.4	64.2	61.5	61.6	mA	61.4	64.2	62.1	51	Pass	100	Pass	
Class 11m B=	61.5	63.9	61.1	61.1	61.5	61.7	61.1	61.1	mA	61.1	63.9	61.6	51	Pass	100	Pass	
Pwr Cl 52 SS=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass	
Pwr Cl 52 DSA=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass	
Pwr Cl 52 DSB=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass	
Mark 11m A=	63	63	62	62	62	63	63	62	mA	62	63	62.5	0	Pass	105	Pass	
Mark 11m B=	62	63	63	63	63	63	62	62	mA	62	63	62.6	0	Pass	105	Pass	
Inval Sig EV2 SS=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV4 SS=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV5 SS=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV2 DSA=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV2 DSB=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV4 DSA=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Inval Sig EV4 DSB=	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	1	Pass	
Test: pwrup_time																	
Pwr On Time Tpon SS=	260.9	257	260.9	257	260.9	260.9	257	257	msec	257	260.9	259	0	Pass	400	Pass	
Pwr On Time Tpon DSA=	229.7	229.7	229.7	233.6	229.7	229.7	229.7	229.7	msec	229.7	233.6	230.2	0	Pass	400	Pass	
Pwr On Time Tpon DSB=	233.6	229.7	229.7	229.7	229.7	229.7	229.7	229.7	msec	229.7	233.6	230.2	0	Pass	400	Pass	
Ewrap Rise Time A=	49	49	49	49	49	49	49	49	usec	49	49	49	15	Pass	50000	Pass	
Ewrap Rise Time B=	49	49	49	49	49	49	49	49	usec	49	49	49	15	Pass	50000	Pass	
Pwr Stagger Time SS4=	0	0	0	0	0	0	0	0	msec	0	0	0	-1	Pass	75	Pass	
Pwr Stagger Time SS5=	0	0	0	0	0	0	0	0	msec	0	0	0	0	Pass	75	Pass	
Pwr Stagger Time DS=	605.8	605.7	605.7	606	605.9	605.8	605.8	605.8	msec	605.7	606	605.8	0	Pass	1000	Pass	
Test: pwrup_inrush																	
Inrush_min Class 3=	424.8	424.8	422.6	425.3	424.8	424.8	422.5	425	mA	422.5	425.3	424.3	400	Pass	9999	Pass	
Inrush_min Class 5=	845.1	844.3	842	845.3	845	844.5	841.9	844.8	mA	841.9	845.3	844.1	400	Pass	9999	Pass	
Inrush_min Class 7=	844.5	844.3	842.4	845.8	845	844.3	842.5	845.5	mA	842.4	845.8	844.3	800	Pass	9999	Pass	
Inrush_min Class 1D A=	421.8	421.2	421.4	422.1	421.2	421.2	421.8	422.3	mA	421.2	422.3	421.6	400	Pass	9999	Pass	
Inrush_min Class 1D B=	421.6	420.6	418.7	421.1	420.8	421.4	418.4	421.2	mA	418.4	421.6	420.5	400	Pass	9999	Pass	
Inrush 4P max Class 3=	428.5	429	426.6	428.7	428.5	428.8	426.1	428.6	mA	426.1	429	428.1	0	Pass	450	Pass	
Inrush 4P max Class 5=	849.3	848.8	846.3	849.9	850.3	848.8	846	849.8	mA	846	850.3	848.7	0	Pass	900	Pass	
Inrush 4P max Class 7=	849.3	849.3	846.3	849.8	849.8	849.4	846.2	850.1	mA	846.2	850.1	848.8	0	Pass	900	Pass	
Inrush 2F max Class 3=	214.5	214.4	214.4	214.8	214.4	214.3	214.3	215	mA	214.3	215	214.5	0	Pass	450	Pass	
Inrush 2F max Class 7=	424.7	424.8	424.8	425.8	425	424.8	424.8	425.8	mA	424.7	425.8	425.1	0	Pass	600	Pass	
Inrush 2p max Cl 1D A=	424.3	424	424.2	424.8	424.3	423.9	424	424.8	mA	423.9	424.8	424.3	0	Pass	450	Pass	
Inrush 2p max Cl 1D B=	423.8	424.1	420.8	423.8	423.8	423.8	420.8	423.8	mA	420.8	424.1	423.1	0	Pass	450	Pass	
Inrush_minPr Class 3=	59.18	59.18	59.18	59.18	59.18	59.18	59.18	59.18	msec	59.18	59.18	59.2	50	Pass	75	Pass	
Inrush_maxPr Class 3=	59.18	59.18	59.18	59.18	59.18	59.18	59.18	59.18	msec	59.18	59.18	59.2	50	Pass	75	Pass	
Inrush_minPr Class 7=	59.18	59.18	59.18	59.18	59.18	59.18	59.18	59.18	msec	59.18	59.18	59.2	50	Pass	75	Pass	
Inrush_maxPr Class 7=	59.18	59.18	59.18	59.18	59.18	59.18	59.18	59.18	msec	59.18	59.18	59.2	50	Pass	75	Pass	
Inrush Class 1D A=	60.74	60.74	60.74	60.74	60.74	60.74	60.74	60.74	msec	60.74	60.74	60.7	50	Pass	75	Pass	
Inrush Class 1D B=	60.74	60.74	60.74	60.74	60.74	60.74	60.74	60.74	msec	60.74	60.74	60.7	50	Pass	75	Pass	
Delay Inrush Class 7=	59.18	59.18	59.18	59.18	59.18	59.18	59.18	59.18	msec	59.18	59.18	59.2	50	Pass	75	Pass	
Delay Inrush Class 2D A=	60.74	60.74	60.74	60.74	60.74	60.74	60.74	60.74	msec	60.74	60.74	60.7	50	Pass	75	Pass	
Delay Inrush Class 2D B=	60.74	60.74	60.74	60.74	60.74	60.74	60.74	60.74	msec	60.74	60.74	60.7	50	Pass	75	Pass	
45ms Pwr Stat Class 7=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
45ms Pwr Stat Class 2D A=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
45ms Pwr Stat Class 2D B=	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass	
Vinrush Class 2D A=	30.8	30.8	30.9	31	30.8	30.8	30.9	31	volts	30.8	31	30.9	30	Pass	60	Pass	
Vinrush Class 2D B=	30.6	30.6	31	31.1	30.6	30.6	31	31.1	volts	30.6	31.1	30.8	30	Pass	60	Pass	
Test: pwr_on_v																	
Vpse Max Alt A=	55.5	55.5	55.35	55.35	55.5	55.5	55.35	55.35	V	55.35	55.5	55.43	52	Pass	57	Pass	
Vpse Max Alt B=	55.42	55.4	55.4	55.4	55.42	55.42	55.4	55.4	V	55.4	55.42	55.41	52	Pass	57	Pass	
Vpse Min Alt A=	54.15	54.3	54.17	54.15	54.15	54.33	54.2	54.15	V	54.15	54.33	54.2	52	Pass	57	Pass	
Vpse Min Alt B=	53.9	54.17	54.15	54.2	53.92	54.17	54.15	54.2	V	53.9	54.2	54.11	52	Pass	57	Pass	
Vport PSE diff=	80	80	50	50	80	80	50	50	mV	50	80	65	0	Pass	150	Pass	
V ripple A=	6	5	5	7	5	5	5	5	mVp-p	5	7	5.4	0	Pass	500	Pass	
V ripple B=	6	5	5	5	5	5	5	5	mVp-p	5	6	5.1	0	Pass	500	Pass	
V noise A=	6	6	4	4	4	5	6	4	mVp-p	4	6	4.9	0	Pass	200	Pass	
V noise B=	12	13	14	18	13	14	16	17	mVp-p	12	18	14.6	0	Pass	200	Pass	
V trans A=	54.048	54.24	54.096	54.08	54.064	54.24	54.112	54.096	V	54.048	54.24	54.122	52	Pass	57	Pass	
V trans B=	53.84	54.096	54.096	54.128	53.856	54.112	54.096	54.144	V	53.84	54.144	54.046	52	Pass	57	Pass	
Test: pwr_on_pwrcep																	
Max Asgn Class SS=	8	8	8	8	8	8	8	8	****	8	8	8	1	Pass	8	Pass	
Pcon c1=	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	W	4.4	4.4	4.4	3.9	Pass	99	Pass	
Icon & c1=	112.5	112.5	112.4	112.4	112.5	112.5	112.4	112.4	W	112.4	112.5	112.5	100	Pass	125	Pass	
Pcon c2=	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	W	7.4	7.4	7.4	3.9	Pass	99	Pass	
Icon & c2=	112.5	112.5	112.4	112.4	112.5	112.5	112.4	112.4	W	112.4	112.5	112.5	100	Pass	125	Pass	
Pcon c3=	15	15	15	15	15	15	15	15	W	15	15	15	3.9	Pass	99	Pass	
Icon & c3=	112.4	112.4	112.4	112.4	112.4	112.4	112.4	112.4	W	112.4	112.4	112.4	100	Pass	125	Pass	
Pcon c4=	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	W	30.3	30.3	30.3	3.9	Pass	99	Pass	
Icon & c4=	112.2	112.3	112.2	112.2	112.2	112.3	112.2	112.3	W	112.2	112.3	112.2	100	Pass	125	Pass	
Pcon c5=	49.3	49.3	49.4	49.3	49.3	49.3	49.3	49.3	W	49.3	49.4	49.3	3.9	Pass	99	Pass	
Icon & c5=	112	112	112	112	111.9	112.1	112	112	W	111.9	112.1	112	100	Pass	125	Pass	
Pcon c6=	64.9	64.9	64.9	65	64.9	64.9	64.9	64.9	W	64.9	65	64.9	3.9	Pass	99	Pass</	

