

PSE Conformance Test Suite

September 5 2019 1:37 AM  
 Port Count: 8  
 Loop Count: 1  
 PSE Tested: Sample Type-2-Event PSE



802.3at Conformance Report  
 version 5.0.12  
 Test Mode: 30 Watt PHY  
 Sifos Interop Index: 100%  
 Error Log: None  
 report version 5.0.02

TestLoop: 1	PSA-3000 Ports								UNITS	Min	Max	Average	Low Limit	P/F	High Limit	P/F
	5-1	5-2	6-1	6-2	7-1	7-2	8-1	8-2								
<b>Test: det_v</b>																
Open_Circuit_Det_Voac	10.5	10.5	10.48	10.55	10.5	10.53	10.48	10.55	volts	10.48	10.55	10.51	2.8	Pass	30	Pass
Peak_Det_Vvalld	7.94	7.93	7.98	7.98	7.94	7.94	7.98	7.99	volts	7.93	7.99	7.98	3.8	Pass	10	Pass
Min_Det_Vvalld	3.98	3.98	4	4	3.98	3.96	4	3.99	volts	3.96	4	4	2.8	Pass	9	Pass
Det_Volt_Step_dVtest	3.35	3.34	3.46	3.41	3.35	3.35	3.46	3.45	uVstep	3.34	3.46	3.4	1	Pass	7.2	Pass
Detection_Strat	0	0	0	0	0	0	0	0		0	0	0	0	Pass	0.1	Pass
Good_Sig_Det_Pulses	3	3	3	3	3	3	3	3	edges	3	3	3	3	Pass	9	Pass
Backoff_Voltages	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	volts	0.5	0.5	0.5	0	Pass	2.8	Pass
Non_802_Step_Vv	0	0	0	0	0	0	0	0	volts	0	0	0	0	Pass	0.1	Pass
High_Sig_MaxVv	10.23	10.22	10.01	10.11	10.24	10.23	10.01	10.11	volts	10.01	10.23	10.1	3.8	Pass	11	Pass
Non_802_Discr_7s	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
Detect_Strategyv	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	2	Pass
<b>Test: det_i</b>																
Init_Current_Iscc	0.13	0.19	0.18	0.18	0.18	0.18	0.18	0.18	mA	0.13	0.19	0.18	0	Pass	5	Pass
Det_Current_Iscc	0.09	0.17	0.17	0.17	0.17	0.17	0.17	0.17	mA	0.09	0.17	0.16	0	Pass	5	Pass
<b>Test: det_range</b>																
Rgood_Maxr	29	29	29	29	29	29	29	29	Kohm	29	29	29	26	Pass	32	Pass
Rgood_Minr	17	17	18	17	17	17	17	18	Kohm	17	18	17.3	16	Pass	19	Pass
Rmid_detr	29	29	29	29	29	29	29	29	Kohm	29	29	29	26	Pass	33	Pass
Rbad_Maxr	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
Rbad_Chad_Statr	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
<b>Test: det_time</b>																
Backoff_Time_Tdboo	137	137	137	137	137	137	137	137	msec	137	137	137	-1	Pass	1500	Pass
Eff_Backoff_Tdboo_eff	137	1002.4	1219.3	137	137	137	137	1009.3	msec	137	1219.3	489.5	-1	Pass	1500	Pass
Backoff_Types	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
Detection_Time_Tdets	313	311	314	314	314	314	314	313	msec	311	314	313	5	Pass	500	Pass
Total_det_Times	314	314	318	318	314	314	318	318	msec	314	318	316	5	Pass	1000	Pass
<b>Test: det_resource</b>																
Output_Impedance_Zout	450	450	450	450	450	450	385.1	450	KOhm	385.1	450	441.9	45	Pass	2000	Pass
<b>Test: class_v</b>																
Class_Voltage_Vclass	17.5	17.5	17.6	17.5	17.5	17.5	17.6	17.5	volts	17.5	17.6	17.5	15.5	Pass	20.5	Pass
Class_Voltage_Minr	17.3	17.3	17.4	17.3	17.3	17.3	17.4	17.3	volts	17.3	17.4	17.3	15.5	Pass	20.5	Pass
Mark_Voltage_Vmarks	9	8.8	8.8	8.8	8.7	8.7	9	8.8	volts	8.7	9	8.9	7	Pass	10	Pass
Mark_Voltage_Minr	8.7	7.3	7.3	8.8	7.3	8.7	8.8	7.3	volts	7.3	8.8	8	7	Pass	10	Pass
<b>Test: class_time</b>																
Event_Counts	2	2	2	2	2	2	2	2	****	2	2	2	2	Pass	3	Pass
Event1_Sc1e1s	12.1	11.9	12.1	12.1	11.9	12.1	12.1	12.1	msec	11.9	12.1	12.1	5.6	Pass	30	Pass
Event2_Sc1e2s	12.1	12.1	12.1	12.3	12.1	12.3	12.1	12.3	msec	12.1	12.3	12.2	5.6	Pass	30	Pass
Mark_Tme1s	8.6	8.6	8.8	8.6	8.6	8.6	8.6	8.6	msec	8.6	8.8	8.7	5.6	Pass	17.4	Pass
Mark_Tme2s	8.6	8.6	8.8	8.8	8.8	8.8	8.8	8.8	msec	8.6	8.8	8.7	5.6	Pass	376	Pass
<b>Test: class_err</b>																
Class_Limr	62	63	63	62	62	63	63	62	mA	62	63	63	61	Pass	100	Pass
Pwr_Cl_Limr	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
Pwr_Cl_55r	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
Mark_Limr	6	6	6	6	6	6	6	6	mA	6	6	6	5	Pass	100	Pass
Pwr_Cl_Uservr	0	0	0	0	0	0	0	0	****	0	0	0	0	Pass	0	Pass
Trsetr	64	66	71	61	62	66	64	72	msec	61	72	65.8	15	Pass	10000	Pass
<b>Test: pwrup_time</b>																
Pwr-On_Sise_Time_Tpise	31	32	32	31	31	31	32	31	usec	31	32	31	15	Pass	50000	Pass
Power-On_Time_Tpown	41	41	41	41	41	41	43	43	msec	41	43	41.5	0	Pass	400	Pass
<b>Test: pwrup_intrush</b>																
Init_Intrushr	420.5	427.63	428.5	423.25	420.75	427.25	423.13	428.5	mA	420.5	428.5	424.9	400	Pass	450	Pass
Max_Intrushr_c4r	419.5	426.63	427.88	422.25	419.63	426	427.38	422.25	mA	419.5	427.88	423.9	400	Pass	450	Pass
Min_Intrushr	418.25	424.38	425.25	420.63	418.25	423.88	425	420.75	mA	418.25	425.25	422	400	Pass	450	Pass
Intrushr	60.4	60.4	60.7	60.7	60.4	60.4	60.7	60.7	msec	60.4	60.7	60.6	50	Pass	75	Pass
Intrushr_45m	56	56	56	56	56	56	56	56	Volts	56	56	56	50	Pass	57	Pass
Intrushr_Voltages	30.9	31	31	30.8	30.9	31	31	30.8	Volts	30.8	31	30.9	30	Pass	57	Pass
Max_Init_Intrushr	576	586.5	614.5	590.3	587.5	600	576.5	597	mA	576	614.5	591	0	Pass	2000	Pass
Intrushr_Strategy_c4r	1	1	1	1	1	1	1	1	****	1	1	1	0	Pass	1	Pass
<b>Test: pwrcon_v</b>																
Vpwr_min_2r	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	V	55.5	55.5	55.5	50	Pass	57	Pass
Vpwr_max_2r	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	V	56.1	56.1	56.1	50	Pass	57	Pass
Vpwr Ripple_2r	6	6	6	6	6	6	6	6	mVpp	6	6	6	5	Pass	500	Pass
Vpwr_noise_2r	141	145	143	142	144	144	145	143	mVpp	141	145	143.3	6	Pass	200	Pass
Vtranz_min_2r	55.2	55.3	55.3	55.2	55.2	55.3	55.2	55.2	V	55.2	55.3	55.2	50	Pass	57	Pass
Vtranz_max_2r	56.2	56.3	56.2	56.3	56.2	56.3	56.2	56.3	V	56.2	56.3	56.3	50	Pass	57	Pass
<b>Test: pwrcon_pwrcap</b>																
Pwrcon_c4r	32.8	32.8	32.7	32.6	32.8	32.6	32.7	32.6	watts	32.5	32.7	32.6	26.7	Pass	38.9	Pass
Icon_b_c4r	112.7	113	113.3	112.9	112.7	113	113.4	112.9	%	112.7	113.4	113	100	Pass	9999	Pass
Type-2_Enabler	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass
<b>Test: pwrcon_maxi</b>																
Ilim_Peakr	296	304.3	302.8	298	295.5	304.8	302.8	297.5	mA	295.5	304.9	300.2	0	Pass	1750	Pass
Ilim_Min_2r	684.1	686.2	687.7	686.3	684.2	686.3	687.8	686.3	mA	684.1	687.8	683	683	Pass	1750	Pass
Ilim_2r	61.3	61.7	62.9	62.5	62.5	62.1	62.1	62.9	msec	61.3	62.9	62.3	10	Pass	75	Pass
Vlim_2r	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	V	55.2	55.2	55.2	50	Pass	57	Pass
Ilim_Max_2r	832	846	849.3	838.3	832.3	846	849	838	mA	832	849.3	841.4	0	Pass	1750	Pass
Ilim_Low_V_NoI_2r	60.2	60.9	60.9	61.3	61.7	60.2	60.9	61.3	msec	60.2	61.7	60.9	10	Pass	9999	Pass
Ktran_lo_2r	110	110	110	109.9	110	110	110	110	%	109.9	110	110	92.4	Pass	115	Pass
<b>Test: pwrcon_overld</b>																
Ilim_Peak_2r	125	125	125	125	125	125	125	125	%	125	125	125	100	Pass	125	Pass
Vpwr_Ilim_Peak_2r	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	V	55.3	55.3	55.3	50	Pass	57	Pass
Vpwr_Slbc_2r	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	V	55.3	55.3	55.3	50	Pass	57	Pass
<b>Test: mps_dc_valid</b>																
Min_Valid_Time_Tmpas	10	10	10	10	10	10	10	10	msec	10	10	10	1	Pass	60	Pass
Duty_Cycle_Volr	1	1	1	1	1	1	1	1	****	1	1	1	1	Pass	1	Pass
<b>Test: mps_dc_pwrdrn</b>																
Min_Valid_t_holdr	7	8	7	8	8	8	8	8	msec	7	8	7.8	5	Pass	10	Pass
Time-to-Shutdown_Tmpdos	380	390	377	387	385	394	379	390	msec	377	394	385	300	Pass	400	Pass
Max_Voltage_Vogen_maxr	10.4	10.4	10.4	10.5	10.4	10.4	10.4	10.5	volts	10.4	10.5	10.4	-1	Pass	36	Pass
<b>Test: pwrdrn_overld</b>																
Iout_2r	598.5	609	609	598.5	609	609	598.5	609	mA	598.5	609	603.8	-1	Pass	1750	Pass
Tout_2r	64.5	62.6	65.1	66	63.3	62.7	64.4	67.6	msec	62.6	67.5	64.5	10	Pass	9999	Pass
Tsoft_2r	-1	-1	-1	-1	-1	-1	-1	-1	msec	-1	-1	-1	-1	Pass	683	Pass
Tsoft_2r	-1	-1	-1	-1	-1	-1	-1	-1	msec	-1	-1	-1	-1	Pass	2000	Pass
<b>Test: pwrdrn_time</b>																
Turn-Off_Time_Toffr	120.7	124.9	127.3	116.3	121	124.9	127.7	116.2	mSec	116.2	127.7	122.4	0	Pass	500	Pass
Output_Dgn_Counts	0.1915	0.2085	0.1985	0.1921	0.2085	0.2157	0.1855	0.2187		0.1855	0.2187	0.2	-1	Pass	0.52	Pass
Output_Load_Spr	883.7	600.1	569.2	665.9	682.7	602.5	567.7	669.4	Kohm	567.7	663.7	630	45	Pass	50000	Pass