PSE Power Management Analyzer	
April 16, 2024 11:22 PM	
Ports Tested:	24
PSE Type:	24 Port 802.3at PSE

PD Emulation Characteristics		
PD Type(s)	1+2	*Type-1 and Type-2 PD's Emulated*
PM Method	PHY	*LLDP Never Used*
System Type	PSA	*Test Ports are PSA-3x02*

Evaluation Catagories
Nominal or Ideal Result
Non-Ideal Feature / Design Limitation
802.3at Specification Violation

Sifos Technologies

Power Mangement Analyzer Report	
PMA Suite	5.4.00
Report Version	5.4.00

Multi-Port Test Resources	1-1	1-2	2-1	2-2	3-1	3-2	4-1	4-2	5-1	5-2	6-1	6-2	7-1	7-2	8-1	8-2	9-1	9-2	10-1	10-2	11-1	11-2	12-1	12-2
1 192.168.221.141																								

mp_class_admit — *Port Admittance Test*

PD_Class	Powered	Granted	Flapping	Inactive	Inactive Ports	Flapping Ports	Ungranted Ports (LLDP)
0	6		2	18	192.168.221.141: 4-1 4-2 5-1 5-2 6-1 6-2 7-1 7-2 8-1 8-2 9-1 9-2 10-1 10-2 11-1 11-2 12-1 12-2	192.168.221.141: 5-1 6-2 7-1 7-2 9-1	
1	24		3	0	192.168.221.141: NONE	192.168.221.141: 4-2 5-2 10-1 10-2 12-2	NA
2	24		3	0	192.168.221.141: NONE	192.168.221.141: 3-1 5-1 8-2 9-1 10-2	
3	14		5	10	192.168.221.141: 8-1 8-2 9-1 9-2 10-1 10-2 11-1 11-2 12-1 12-2	192.168.221.141: 3-2 8-1 8-2 9-1 9-2 10-1 10-2 11-1 11-2 12-1 12-2	NA
4	6		0	18	192.168.221.141: 4-1 4-2 5-1 5-2 6-1 6-2 7-1 7-2 8-1 8-2 9-1 9-2 10-1 10-2 11-1 11-2 12-1 12-2	192.168.221.141: NONE	
Grant_Instability:			*ports*				

mp_pwrup_time — *Group Power-Up Timing Test*

PD_Class	Fast_PwrUp	Slow_PwrUp	Avg_PwrUp	Fast_LLDP	Slow_LLDP	Avg_LLDP	
2	0.7	11.3	6.0				seconds
4	0.6	5.5	3.0				seconds

First_Powered_Port_1	192.168.221.141: 1-2	Unpowered Ports 1	NONE
Final_Powered_Port_1	192.168.221.141: 6-1		
First_Powered_Port_2	192.168.221.141: 1-2	Unpowered Ports 2	NONE
Final_Powered_Port_2	192.168.221.141: 3-1		
First_Granted_Port_1		Ungranted Ports 1	
Final_Granted_Port_1			
First_Granted_Port_2		Ungranted Ports 2	
Final_Granted_Port_2			

mp_discx_time — *Group Disconnect Shutdown Timing Test*

Action	MPS_Level	Minimum	Maximum	Average	
Shutdown	3.0 mA	323.4	327.4	325.5	msec
Recycle	0.0 mA	2.1	2.1	2.1	seconds

First_Port_Down	192.168.221.141: 10-1
Final_Port_Down	192.168.221.141: 10-2
Stuck_ON_Ports	NONE
Out_of_Service Ports	NONE

mp_static_cap — *Static Power Capacity Test*

Static_Capacity_1:	205.9 W	Under-Alloc. Pwr. 1	116.0 W
Static_Capacity_2:	206.9 W	Under-Alloc. Pwr. 2	0.0 W

PD_Class	PD_Type	Pclass_PSE	Min_PD's	Alloc_Pwr/PD
0	1	14.6 W	14	34.3 W
4	2	29.9 W	6	34.5 W

Static_Cap_Port_Count_1	6
Static_Cap_Port_Count_2	6

Out_of_Service_Ports:
NONE

mp_trans_cap — *Transient Reserve Power Test*

PD_Type	Transient/port	Reserve@Full	%_Reserve	Reserve@Half
1	399.0 mA	0.0 W	135.0 %	16.6 W
2	682.0 mA	0.0 W	15.3 %	102.6 W

Out_of_Service_Ports:
NONE

mp_port_caps — *Static Power Uncertainty Test*

PD_Class	Max_Pwr/port	Min_Pwr/port	Avg_Pwr/port	Uncertainty/port		Variation	Premature Dropped Ports
0	36.5	34.4	34.8	0.5	W	6.0 %	NONE
1	5.2	5.1	5.2	0.0	W	1.9 %	NONE
2	8.9	8.6	8.8	0.2	W	3.4 %	NONE
3	18.7	18.3	18.6	3.9	W	2.2 %	NONE
4	35.7	34.7	35.1	0.6	W	2.9 %	NONE

mp_ovrld_time — *Overload Shutdown and Restore Timing*

Operation	Ovld. Level	Minimum	Maximum	Average	
Shutdown	185 mA	66.5	68.4	67.5	msec
Recycle		1.7	1.7	1.7	seconds

First_Port_Down:	192.168.221.141: 11-2
Last_Port_Down:	192.168.221.141: 3-1
Stuck_ON_Ports	NONE
Out_of_Service Ports	NONE

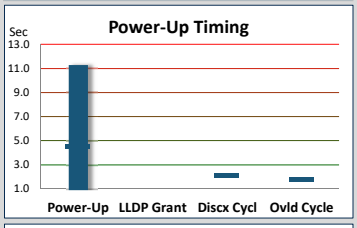
mp_admit_cases — *Multi-Port Power-Up Port Groups*

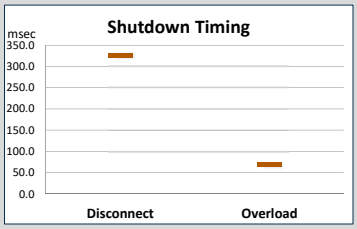
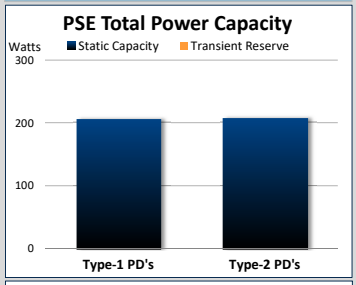
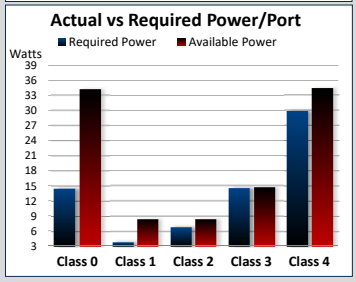
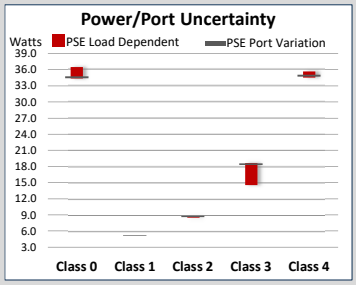
Parameter	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7
Expected Ports	12	6	12	14	6	12	6
Actual Ports Powered	12	6	12	14	6	12	6

mp_cap_stress — *Full Capacity Stress Test*

	Test Duration	PD Class	Actual Load Power
Test Conditions	2 minutes	4	196.8 watts
Dropped Power Count:	0		
Power Drop Ports	NONE		
Out_of_Service Ports	NONE		

Timing Metrics





Power Metrics