

Multi-Port Test Report

July 23, 2017 11:21 AM
 Ports Tested: 48
 PSE Type: 48 Port LLDP PSE

PD Emulation Characteristics
 PD Type(s) 1+2 Type-1 and Type-2 PD's Emulated
 PM Method LLDP2 LLDP Used for Type-2 Only
 System Type PSA Test Ports are PSA-3102

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



PSE Multiport Performance Report
 Multi-Port Suite 5.1.00
 Report Version 5.1.00

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	
192.168.221.107																									
192.168.221.109																									
192.168.221.141																									

mp_class admit					Port Admittance Test																							
PD Class	Powered	Granted	Flapping	Inactive	Inactive Ports									Flapping Ports									Ungranted Ports (LLDP)					
0	48		0	0	192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE									192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE														
1	48		0	0	192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE									192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE														
2	48		0	0	192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE									192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE														
3	48		0	0	192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE									192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE														
4	25	24	0	23	192.168.221.107: 5-1 9-1 192.168.221.109: 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: 1-1 1-2 2-1 2-2 3-1 3-2 4-1 4-2									192.168.221.107: NONE 192.168.221.109: NONE 192.168.221.141: NONE									192.168.221.107: NONE 192.168.221.109: 6-1 192.168.221.141: NONE					
Grant_Instability:					0 ports																							

mp_pwrup time				Group Power-Up Timing Test		
PD Class	Fast PwrUp	Slow PwrUp	Avg PwrUp	Fast LLDP	Slow LLDP	Avg LLDP
3	0.6	2.0	1.5			seconds
4	0.5	2.2	1.4	27.4	39.5	29.0 seconds

First Powered Port 1		192.168.221.107: 1-1	Unpowered Ports 1		NONE
Final Powered Port 1		192.168.221.107: 12-2	Unpowered Ports 2		NONE
First Powered Port 2		192.168.221.107: 12-1	Ungranted Ports 1		
Final Powered Port 2		192.168.221.107: 8-1	Ungranted Ports 2		NONE
First Granted Port 1			Out of Service Ports		NONE
Final Granted Port 1					
First Granted Port 2		192.168.221.107: 10-2			
Final Granted Port 2		192.168.221.107: 8-1			

mp_discx time		Group Disconnect Shutdown Timing Test		
Action	MPS Lev	Minimum	Maximum	Average
Shutdown	3.0 mA	367.0	371.5	369.7 msec
Recycle	0.0 mA	4.3	5.8	5.0 seconds

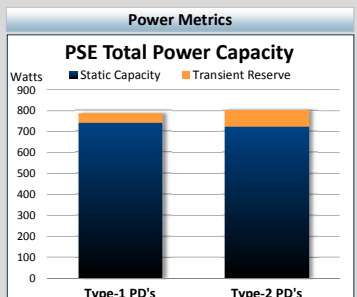
First Port Down		192.168.221.107: 2-1
Final Port Down		192.168.221.107: 10-2
Stuck ON Ports		NONE
Out of Service Ports		NONE

mp_static_cap				Static Power Capacity Test			
Static Capacity 1:	742.2 W	Under-Alloc. Pwr. 1	0.0 W	Static Capacity 2:	724.2 W	Under-Alloc. Pwr. 2	0.0 W
PD Class	PD Type	Pclass PSE	Min PD's	Alloc Pwr/PD			
0	1	14.5 W	48	15.5 W			
4	2	29.5 W	24	29.6 W			

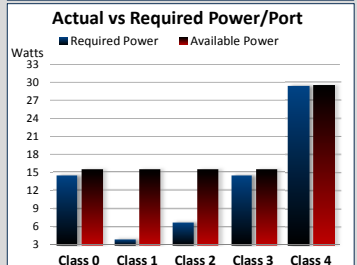
Static Cap Port_Count_1		48
Static Cap Port_Count_2		25
Out of Service Ports:		NONE

mp_trans_cap					Transient Reserve Power Test		
PD Type	Transient/port	Reserve@Full	% Reserve	Reserve@Half			
1	311.2 mA	42.3 W	12.7 %	412.8 W			
2	643.9 mA	79.5 W	13.5 %	446.4 W			

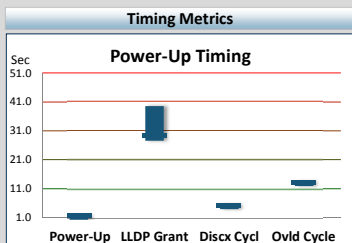
Out of Service Ports:		NONE
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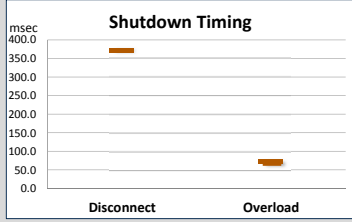
mp_port_caps								Static Power Uncertainty Test		
PD Class	Max Pwr/port	Min Pwr/port	Avg Pwr/port	Uncertainty/port	Variation	Premature Dropped Ports				
0	16.2	15.9	16.0	0.5 W	1.9 %	NONE				
1	4.6	4.5	4.5	0.0 W	2.2 %	NONE				
2	7.7	7.4	7.6	0.0 W	4.0 %	NONE				
3	16.2	15.9	16.0	0.5 W	1.9 %	NONE				
4	30.8	30.0	30.2	0.6 W	2.6 %	NONE				



mp_overid time					Overload Shutdown and Restore Timing		
Operation	Ovid. Level	Minimum	Maximum	Average			
Shutdown	400 mA	63.9	73.6	70.9 msec			
Recycle		12.2	13.7	13.0 seconds			
First Port Down:		192.168.221.109: 6-1					
Last Port Down:		192.168.221.107: 6-1					
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	24	48	24	48	24	24	24							
Actual Ports Powered	24	48	24	48	24	24	24							



mp_cap_stress				Multi-Port Stress Test	
Test Conditions	Test Duration	PD Class	Actual Load Power		
Test Conditions	2 minutes	0	706.6 watts		
Dropped Power Count:	0				
Power Drop Ports	NONE				
Out of Service Ports	NONE				

