

Multi-Port Test Report

November 21, 2019 10:36 AM
 Ports Tested: 24
 PSE Type: Type-3 30W PHY

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 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	
192.168.221.103																									

mp_class admit					Port Admittance Test																		
PD Class	Powered	Granted	Flapping	Inactive	Inactive Ports									Flapping Ports						Ungranted Ports (LLDP)			
0	24		0	0	192.168.221.103: NONE									192.168.221.103: NONE									
1	24		0	0	192.168.221.103: NONE									192.168.221.103: NONE									
2	24		0	0	192.168.221.103: NONE									192.168.221.103: NONE									
3	24		0	0	192.168.221.103: NONE									192.168.221.103: NONE									
4	20		6	4	192.168.221.103: 1-2 2-2 3-2 4-2									192.168.221.103: 1-2 2-2 3-2 4-2 5-2 6-2									

mp_pwrup time				Group Power-Up Timing Test						
PD Class	Fast PwrUp	Slow PwrUp	Avg PwrUp	Fast_LLDP	Slow_LLDP	Avg_LLDP				
3	0.1	1.3	0.6						seconds	
4	0.1	1.1	0.5						seconds	

First Powered Port 1		192.168.221.103: 1-1		Unpowered Ports 1		NONE	
Final Powered Port 1		192.168.221.103: 7-2		Unpowered Ports 2		NONE	
First Powered Port 2		192.168.221.103: 1-1		Ungranted Ports 1			
Final Powered Port 2		192.168.221.103: 3-1		Ungranted Ports 2			
First Granted Port 1							
Final Granted Port 1							
First Granted Port 2							
Final Granted Port 2							

mp_disc time				Group Disconnect Shutdown Timing Test				
Action	MPS Lev	Minimum	Maximum	Average				
Shutdown	3.0 mA	359.7	362.2	361.0		msec		
Recycle	0.0 mA	1.3	1.4	1.3		seconds		

First Port Down		192.168.221.103: 7-1	
Final Port Down		192.168.221.103: 1-1	
Stuck ON Ports			
NONE			
Out of Service Ports			
NONE			

mp_static_cap					Static Power Capacity Test				
Static Capacity 1:	378.5 W	Under-Alloc. Pwr. 1	0.0 W						
Static Capacity 2:	581.7 W	Under-Alloc. Pwr. 2	0.0 W						

PD Class	PD Type	Class PSE	Min PD's	Alloc. Pwr/PD
0	1	14.5 W	24	15.8 W
2	2	29.6 W	19	29.1 W

Static Cap Port Count 1	24
Static Cap Port Count 2	20

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	13.7 W	12.7 %	201.6 W					
2	651.2 mA	90.4 W	13.5 %	380.0 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	15.9	13.3	15.9	2.6 W	16.4 %	192.168.221.103: 2-1 3-1 4-1 5-1 6-1 7-1 8-1 9-1 10-1 11-1 12-1													
1	4.0	4.0	4.0	0.0 W	0.0 %	NONE													
2	7.0	6.9	7.0	0.0 W	1.4 %	NONE													
3	15.9	13.3	15.9	0.1 W	16.4 %	192.168.221.103: 2-1 3-1 4-1 5-1 6-1 7-1 8-1 9-1 10-1 11-1 12-1													
4	30.7	30.1	30.4	1.3 W	2.0 %	NONE													

mp_overid time					Overload Shutdown and Restore Timing			
Operation	Ovld. Level	Minimum	Maximum	Average				
Shutdown	318 mA	61.1	61.9	61.6	msec			
Recycle		2.0	2.0	2.0	seconds			

First Port Down:		192.168.221.103: 1-2	
Last Port Down:		192.168.221.103: 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	24	12	24	20	12	12								
Actual Ports Powered	12	24	12	24	20	12	12								

mp_cap_stress				Multi-Port Stress Test			
Test Conditions	Test Duration	PD Class	Actual Load Power				
Dropped Power Count:	0	4	552.6 watts				
Power Drop Ports	NONE						
Out of Service Ports	NONE						

