

PDA-600 TEST REPORT

October 11, 2017 11:28 AM

Product Tested:

Cycles:

myType2PD

1

Coverage: **ALT A** MDI

ALT B MDI-X

Type-1

Type-2 PHY

Type-2 LLDP

Software Version: 1.9

PDA Firmware: 2.00

Report Ver: 1.5

Serial Number 602B0002



Detection & Classification

Parameter	Cycle:	PSE Emulation:		Pairs:		Polarity:	MDI-X	Det_Cycles:	
		1	Units	Min.	Max.			Average	Low Lim.
Rdet		25.27	kohm	25.27	25.27	25.27	23.70	26.30	P
Rdet_final		25.27	kohm	25.27	25.27	25.27	23.70	26.30	P
Rdet_unpwr		>99.00	kohm	99.00	99.00	99.00	<12.00	>45.00	P
Rdet_at_Vmin		25.84	kohm	25.84	25.84	25.84	23.70	26.30	P
Rdet_at_Vmax		26.04	kohm	26.04	26.04	26.04	23.70	26.30	P
Rdet_Voffset		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet		0.10	uF	0.10	0.10	0.10	0.05	0.12	P
Cdet_final		0.10	uF	0.10	0.10	0.10	0.05	0.12	P
1 Event Classification									
Iclass		39.8	mA	39.8	39.8	39.8	36.0	44.0	P
ClassNum		4		4	4	-	0	4	P
Tclass		0.000	sec	0.000	0.000	0.000	0.000	0.005	P
ClassStability		1					1	1	P
Iclass_at_Vmin		40.0	mA	40.0	40.0	40.0	36.0	44.0	P
Iclass_at_Vmax		40.7	mA	40.7	40.7	40.7	36.0	44.0	P
2 Event Classification									
Iclass_event1		39.8	mA	39.8	39.8	39.8	36.0	44.0	P
Iclass_event2		39.8	mA	39.8	39.8	39.8	36.0	44.0	P
Mark1		2.13	mA	2.13	2.13	2.13	0.25	4.00	P
ClassNum2		4		4	4	-	0	4	P
Tclass_event1		0.000	sec	0.000	0.000	0.000	0.000	0.005	P
Tclass_event2		0.000	sec	0.000	0.000	0.000	0.000	0.005	P
ClassStability_event1		1					1	1	P
ClassStability_event2		1					1	1	P

Power-Up / Down

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
Inrush1_1		42.0	mA	42.0	42.0	42.0	0.0	400.0	P
Inrush1_2		42.1	mA	42.1	42.1	42.1	0.0	400.0	P
Pmax_Tdelay		6.2	W	6.2	6.2	6.2	0.0	14.4	P
Inrush_delayed		0		0	0	-	0	0	P
Von		37.2	VDC	37.2	37.2	37.2	30.0	42.0	P
Voff		34.1	VDC	34.1	28.3	34.1	30.0	37.0	P
Vhyst		8.9	VDC	8.9	8.9	8.9	0.5	12.0	P
BackfeedV		0.0	VDC	0.0	0.0	0.0	0.0	2.8	P
ClassRecover		0		0	0	-	0	0	P
SigRecoverTime		0.0	sec	0.0	0.0	0.0	0.0	30.0	P

MDI Powered Type-1

Parameter	Cycle:	PSE Emulation:		On Time:		Off Time:		Vport:	
		1	Units	Min.	Max.	Average	Low Lim.		High Lim.
MinI_1		128.6	mA	128.6	128.6	128.6	0.0	300.7	P
MaxI_1		129.4	mA	129.4	129.4	129.4	10.0	300.7	P
Vport_1		48.0	VDC	48.0	48.0	48.0	37.0	57.0	INFO
Ppeak_1		6.21	W	6.21	6.21	6.21	0.0	14.4	P
Pavg_1		6.18	W	6.18	6.18	6.18	0.0	13.0	P
MPSViolation_1		0		0	0	-	0	0	P
TcutWindowViolation_1		0		0	0	-	0	0	P
DutyCycleViolation_1		0		0	0	-	0	0	P

MDI Powered Type-2 PHY

Parameter	Cycle:	PSE Emulation:		On Time:		Off Time:		Vport:	
		1	Units	Min.	Max.	Average	Low Lim.		High Lim.
MinI_2		113.9	mA	113.9	113.9	113.9	0.0	525.7	P
MaxI_2		114.7	mA	114.7	114.7	114.7	10.0	525.7	P
Vport_2		53.9	VDC	53.9	53.9	53.9	42.5	57.0	INFO
Ppeak_2		6.17	W	6.17	6.17	6.17	0.0	28.3	P
Pavg_2		6.16	W	6.16	6.16	6.16	0.0	25.5	P
MPSViolation_2		0		0	0	-	0	0	P
TcutWindowViolation_2		0		0	0	-	0	0	P
DutyCycleViolation_2		0		0	0	-	0	0	P

MDI Powered Type-2 LLDP

Parameter	Cycle:	PSE Emulation:		On Time:		Off Time:		Vport:	
		1	Units	Min.	Max.	Average	Low Lim.		High Lim.
MinI_PreAlloc		113.9	mA	113.9	113.9	113.9	0.0	267.6	P
MaxI_PreAlloc		114.7	mA	114.7	114.7	114.7	10.0	267.6	P
Vport_PreAlloc		53.9	VDC	53.9	53.9	53.9	42.5	57.0	INFO
Ppeak_PreAlloc		6.18	W	6.18	6.18	6.18	0.0	14.4	P
Pavg_PreAlloc		6.16	W	6.16	6.16	6.16	0.0	13.0	P
MPSViolation_PreAlloc		0		0	0	-	0	0	P

TcutWindowViolation_PreAlloc	0		0	0	-	0	0	P
DutyCycleViolation_PreAlloc	0		0	0	-	0	0	P
MinI_PostAlloc	114.1	mA	114.1	114.1	114.1	0.0	407.5	P
MaxI_PostAlloc	360.5	mA	360.5	360.5	418.1	10.0	407.5	P
Vport_PostAlloc	53.4	VDC	53.4	53.4	53.4	42.5	57.0	INFO
Ppeak_PostAlloc	19.5	W	19.45	19.45	22.31	0.0	21.8	P
Pavg_PostAlloc	19.3	W	19.32	19.32	22.29	0.0	19.6	P
MPSViolation_PostAlloc	0		0	0	-	0	0	P
TcutWindowViolation_PostAlloc	0		0	0	-	0	0	P
DutyCycleViolation_PostAlloc	0		0	0	-	0	0	P
MinI_AfterThrottle	114.0	mA	114.0	114.0	115.0	0.0	407.5	P
MaxI_AfterThrottle	114.5	mA	114.5	114.5	417.9	0.0	407.5	P
Vport_AfterThrottle	53.4	VDC	53.4	53.4	53.4	42.5	57.0	INFO
Ppeak_AfterThrottle	6.17	W	6.17	6.17	22.30	0.0	21.8	P
Pavg_AfterThrottle	6.13	W	6.13	6.13	18.89	0.0	19.6	P
MPSViolation_AfterThrottle	0		0	0	-	0	0	P
TcutWindowViolation_AfterThrottle	0		0	0	-	0	0	P
DutyCycleViolation_AfterThrottle	0		0	0	-	0	0	P

PD LLDP Protocol Characteristics

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
TimeToLink		1.0	sec	1.0	1.0	1.0			INFO
LinkSpeed		10	rate	-	-	-			INFO
FirstReqTime		6.0	sec	6.0	6.0	6.0			INFO
PowerRequest		19.6	W	19.6	19.6	19.6	0.1	25.5	P
PDAckTime		2.0	sec	2.0	2.0	2.0	0.0	10.0	P
AllocPowerEchoed		19.6	W	19.6	19.6	19.6	19.6	19.6	P
ThrottleAckTime		1.0	sec	1.0	1.0	1.0	0.0	10.0	P
ThrottlePowerReq		19.6	W	19.6	19.6	19.6	19.6	19.6	INFO