

PDA-600 BT TEST REPORT

December 12, 2019 3:58 PM

Product Tested: Cycles: 1
 Sample Class 8 PD with LLDP Support

Coverage: **ALT A** MDI Type3 Phy
ALT B MDI Type4 Phy
 Color Key: **PASS** **FAIL** **WARN** **INFO** LLDP

Software Version: 1.16.0.5
 PDA Firmware: 2.06
 Report Ver: 2.1
 Serial Number 604AENG1



Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		24.70	kohm	24.70	24.70	24.70	23.50	26.60	P
Rdet_final_A		24.77	kohm	24.77	24.77	24.77	23.50	26.60	P
Rdet_unpwr_A		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_A		24.87	kohm	24.87	24.87	24.87	23.50	26.60	P
Rdet_at_Vmax_A		24.89	kohm	24.89	24.89	24.89	23.50	26.60	P
Rdet_Voffset_A		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Rdet_B		24.78	kohm	24.78	24.78	24.78	23.50	26.60	P
Rdet_final_B		24.78	kohm	24.78	24.78	24.78	23.50	26.60	P
Rdet_unpwr_B		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_B		24.87	kohm	24.87	24.87	24.87	23.50	26.60	P
Rdet_at_Vmax_B		24.94	kohm	24.94	24.94	24.94	23.50	26.60	P
Rdet_Voffset_B		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P

Classification

ClassNum		8		8	8	-	8	8	P
class_sig_EV1-2_min		39.4	mA	39.4	39.4	39.4	35.3	44.8	P
class_sig_EV1-2_max		41.1	mA	41.1	41.1	41.1	35.3	44.8	P
class_sig_EV3-5_min		27.3	mA	27.3	27.3	27.3	25.5	30.6	P
class_sig_EV3-5_max		28.9	mA	28.9	28.9	28.9	25.5	30.6	P
MarkI		0.99	mA	0.99	0.99	0.99	0.25	4.00	P
Tclass_max		0.4	ms	0.4	0.4	0.4	0.2	5.0	P
lclass_EV1_at_Vmin		40.0	mA	40.0	40.0	40.0	35.5	44.7	P
lclass_EV1_at_Vmax		40.4	mA	40.4	40.4	40.4	35.5	44.7	P
Class_Reset		1		1	1	-	1	1	P
Autoclass		0		0	0	-	0	0	P
Tacs		0.0	ms	0.0	0.0	0.0	0.0	0.0	P

Power-Up / Down

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-1 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	48.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-2 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-3 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-4 PHY			PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered LLDP			PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F

PD LLDP Protocol Characteristics

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
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NOTE: testing did not include LLDP, so PD Data Link Layer characteristics were not checked.

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Sample Class 8 PD with LLDP Support

Coverage: ALT A MDI-X Type3 Phy
 ALT B MDI Type4 Phy
 Color Key: PASS FAIL WARN INFO

Software Version: 1.16.0.5
 PDA Firmware: 2.06
 Report Ver: 2.1



Serial Number: 604AENG1

Detection										
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P	
Rdet_A		24.79	kohm	24.79	24.79	24.79	23.50	26.60	P	
Rdet_final_A		24.79	kohm	24.79	24.79	24.79	23.50	26.60	P	
Rdet_unpwr_A		>99.00	kohm	99.00	99.00	99.00	<12.00	>45.00	P	
Rdet_at_Vmin_A		24.89	kohm	24.89	24.89	24.89	23.50	26.60	P	
Rdet_at_Vmax_A		24.87	kohm	24.87	24.87	24.87	23.50	26.60	P	
Rdet_Voffset_A		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P	
Cdet_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P	
Cdet_final_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P	
Rdet_B		24.75	kohm	24.75	24.75	24.75	23.50	26.60	P	
Rdet_final_B		24.75	kohm	24.75	24.75	24.75	23.50	26.60	P	
Rdet_unpwr_B		>99.00	kohm	99.00	99.00	99.00	<12.00	>45.00	P	
Rdet_at_Vmin_B		24.86	kohm	24.86	24.86	24.86	23.50	26.60	P	
Rdet_at_Vmax_B		24.92	kohm	24.92	24.92	24.92	23.50	26.60	P	
Rdet_Voffset_B		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P	
Cdet_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P	
Cdet_final_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P	
Classification										
ClassNum		8		8	8	8	8	8	P	
class_sig_EV1-2_min		39.8	mA	39.8	39.8	39.8	35.3	44.8	P	
class_sig_EV1-2_max		41.1	mA	41.1	41.1	41.1	35.3	44.8	P	
class_sig_EV3-5_min		27.7	mA	27.7	27.7	27.7	25.5	30.6	P	
class_sig_EV3-5_max		28.5	mA	28.5	28.5	28.5	25.5	30.6	P	
MarkI		0.99	mA	0.99	0.99	0.99	0.25	4.00	P	
Tclass_max		0.4	ms	0.4	0.4	0.4	0.2	5.0	P	
Iclass_EV1_at_Vmin		40.0	mA	40.0	40.0	40.0	35.5	44.7	P	
Iclass_EV1_at_Vmax		40.9	mA	40.9	40.9	40.9	35.5	44.7	P	
Class_Reset		1		1	1	1	1	1	P	
Autoclass		0		0	0	0	0	0	P	
Tacs		0.0	ms	0.0	0.0	0.0	0.0	0.0	P	
Power-Up / Down										
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
Iinrush		332.8	mA	332.8	332.8	332.8	0.0	800.0	P	
Tinrush_energy		0.038	J	0.038	0.038	0.038	0.000	2.078	P	
Iinrush_A		169.3	mA	169.3	169.3	169.3	0.0	600.0	P	
Tinrush_energy_A		0.019	J	0.019	0.019	0.019	0.000	1.559	P	
Imax_Tdelay_A		7.5	mA	7.5	7.5	7.5	0.0	600.0	P	
Iinrush_B		163.4	mA	163.4	163.4	163.4	0.0	400.0	P	
Tinrush_energy_B		0.018	J	0.018	0.018	0.018	0.000	1.041	P	
Imax_Tdelay_B		7.5	mA	7.5	7.5	7.5	0.0	400.0	P	
Vrefl		1.5	VDC	1.5	1.5	1.5	0.0	2.8	P	
Von		38.2	VDC	38.2	38.2	38.2	30.0	42.0	P	
Voff		32.3	VDC	32.3	32.3	32.3	30.0	42.0	P	
Vhyst		5.8	VDC	5.8	5.8	5.8	0.0	12.0	P	
2 Pair Powered Type-1 PHY										
				PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	48.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
MinI_1		13.6	mA	13.6	13.6	13.6	0.0	303.2	P	
Vport_1		47.0	VDC	47.0	47.0	47.0	37.0	57.0	INFO	
Ppeak_1		27.85	W	27.85	27.85	27.85	0.0	14.4	F	
Pport_1		26.75	W	26.75	26.75	26.75	0.0	13.0	F	
PeakViolation_1		1		1	1	1	0	0	F	
MPSViolation_1		0		0	0	0	0	0	P	
TcutWindowViolation_1		1		1	1	1	0	0	F	
DutyCycleViolation_1		1		1	1	1	0	0	F	
2 Pair Powered Type-2 PHY										
				PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
MinI_2		13.8	mA	13.8	13.8	13.8	0.0	572.4	P	
Vport_2		48.9	VDC	48.9	48.9	48.9	42.5	57.0	INFO	
Ppeak_2		28.26	W	28.26	28.26	28.26	0.0	28.3	P	
Pport_2		27.82	W	27.82	27.82	27.82	0.0	25.5	F	
PeakViolation_2		0		0	0	0	0	0	P	
MPSViolation_2		0		0	0	0	0	0	P	
TcutWindowViolation_2		1		1	1	1	0	0	F	
DutyCycleViolation_2		1		1	1	1	0	0	F	
4 Pair Powered Type-3 PHY										
				PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
MinI_3		13.7	mA	13.7	13.7	13.7	0.0	718.0	P	
Vport-2P_3_A		49.3	VDC	49.3	49.3	49.3	42.5	57.0	INFO	
Vport-2P_3_B		49.4	VDC	49.4	49.4	49.4	42.5	57.0	INFO	
Ppeak_3		28.67	W	28.67	28.67	28.67	0.0	53.5	P	
Pport_3		28.27	W	28.27	28.27	28.27	0.0	51.0	P	
PeakViolation_3		0		0	0	0	0	0	P	
MPSViolation_3		0		0	0	0	0	0	P	
TcutWindowViolation_3		0		0	0	0	0	0	P	
DutyCycleViolation_3		0		0	0	0	0	0	P	
4 Pair Powered Type-4 PHY										
				PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
MinI_4		14.1	mA	14.1	14.1	14.1	0.0	1003.0	P	
Vport-2P_4_A		51.3	VDC	51.3	51.3	51.3	41.1	57.0	INFO	
Vport-2P_4_B		51.4	VDC	51.4	51.4	51.4	41.1	57.0	INFO	
Ppeak_4		27.96	W	27.96	27.96	27.96	0.0	74.9	P	
Pport_4		26.98	W	26.98	26.98	26.98	0.0	71.3	P	
PeakViolation_4		0		0	0	0	0	0	P	
MPSViolation_4		0		0	0	0	0	0	P	
TcutWindowViolation_4		0		0	0	0	0	0	P	
DutyCycleViolation_4		0		0	0	0	0	0	P	
4 Pair Powered LLDP										
				PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F	
MinI_PreAlloc		13.7	mA	13.7	13.7	13.7	0.0	278.1	P	
Vport-2P_PreAlloc_A		51.5	VDC	51.5	51.5	51.5	39.9	57.0	INFO	
Vport-2P_PreAlloc_B		51.7	VDC	51.7	51.7	51.7	39.9	57.0	INFO	
Ppeak_PreAlloc		12.71	W	12.71	12.71	12.71	0.0	14.4	P	
Pport_PreAlloc		10.39	W	10.39	10.39	10.39	0.0	13.0	P	
PeakViolation_PreAlloc		0		0	0	0	0	0	P	
MPSViolation_PreAlloc		0		0	0	0	0	0	P	
TcutWindowViolation_PreAlloc		0		0	0	0	0	0	P	
DutyCycleViolation_PreAlloc		0		0	0	0	0	0	P	
MinI_PostAlloc		164.2	mA	164.2	164.2	164.2	0.0	1003.0	P	
Vport-2P_PostAlloc_A		51.2	VDC	51.2	51.2	51.2	41.1	57.0	INFO	
Vport-2P_PostAlloc_B		51.4	VDC	51.4	51.4	51.4	41.1	57.0	INFO	
Ppeak_PostAlloc		27.54	W	27.54	27.54	27.54	0.0	74.9	P	
Pport_PostAlloc		26.90	W	26.90	26.90	26.90	0.0	71.0	P	
PeakViolation_PostAlloc		0		0	0	0	0	0	P	
MPSViolation_PostAlloc		0		0	0	0	0	0	P	
TcutWindowViolation_PostAlloc		0		0	0	0	0	0	P	
DutyCycleViolation_PostAlloc		0		0	0	0	0	0	P	

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ALT B MDI-X Type4 Phy
Color Key: PASS FAIL WARN INFO
LLDP

Software Version: 1.16.0.5
PDA Firmware: 2.06
Report Ver: 2.1
Serial Number 604AENG1



Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		24.77	kohm	24.77	24.77	24.77	23.50	26.60	P
Rdet_final_A		24.73	kohm	24.73	24.73	24.73	23.50	26.60	P
Rdet_unpwr_A		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_A		24.90	kohm	24.90	24.90	24.90	23.50	26.60	P
Rdet_at_Vmax_A		24.88	kohm	24.88	24.88	24.88	23.50	26.60	P
Rdet_Voffset_A		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Rdet_B		24.80	kohm	24.80	24.80	24.80	23.50	26.60	P
Rdet_final_B		24.80	kohm	24.80	24.80	24.80	23.50	26.60	P
Rdet_unpwr_B		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_B		24.91	kohm	24.91	24.91	24.91	23.50	26.60	P
Rdet_at_Vmax_B		24.93	kohm	24.93	24.93	24.93	23.50	26.60	P
Rdet_Voffset_B		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P

Classification

ClassNum	8		8	8	-	8	8	P
class_sig_EV1-2_min	39.8	mA	39.8	39.8	39.8	35.3	44.8	P
class_sig_EV1-2_max	41.1	mA	41.1	41.1	41.1	35.3	44.8	P
class_sig_EV3-5_min	27.3	mA	27.3	27.3	27.3	25.5	30.6	P
class_sig_EV3-5_max	28.5	mA	28.5	28.5	28.5	25.5	30.6	P
MarkI	0.99	mA	0.99	0.99	0.99	0.25	4.00	P
Tclass_max	0.4	ms	0.4	0.4	0.4	0.2	5.0	P
lclass_EV1_at_Vmin	40.4	mA	40.4	40.4	40.4	35.5	44.7	P
lclass_EV1_at_Vmax	40.8	mA	40.8	40.8	40.8	35.5	44.7	P
Class_Reset	1		1	1	-	1	1	P
Autoclass	0		0	0	-	0	0	P
Tacs	0.0	ms	0.0	0.0	0.0	0.0	0.0	P

Power-Up / Down

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-1 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	48.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-2 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-3 PHY			PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-4 PHY			PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered LLDP			PSE Emulation:	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F

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ALT B **MDI-X** Type4 Phy
 Color Key: **PASS** **FAIL** **WARN** **INFO** LLDP

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PDA Firmware: 2.06

Report Ver: 2.1



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Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		24.86	kohm	24.86	24.86	24.86	23.50	26.60	P
Rdet_final_A		24.75	kohm	24.75	24.75	24.75	23.50	26.60	P
Rdet_unpwr_A		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_A		24.88	kohm	24.88	24.88	24.88	23.50	26.60	P
Rdet_at_Vmax_A		24.88	kohm	24.88	24.88	24.88	23.50	26.60	P
Rdet_Voffset_A		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_A		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Rdet_B		24.75	kohm	24.75	24.75	24.75	23.50	26.60	P
Rdet_final_B		24.78	kohm	24.78	24.78	24.78	23.50	26.60	P
Rdet_unpwr_B		-1.00	kohm	-1.00	0.00	-1.00	<12.00	>45.00	P
Rdet_at_Vmin_B		24.83	kohm	24.83	24.83	24.83	23.50	26.60	P
Rdet_at_Vmax_B		24.92	kohm	24.92	24.92	24.92	23.50	26.60	P
Rdet_Voffset_B		1.1	VDC	1.1	1.1	1.1	0.0	1.9	P
Cdet_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P
Cdet_final_B		0.07	uF	0.07	0.07	0.07	0.04	0.13	P

Classification

ClassNum	8		8	8	-	8	8	P
class_sig_EV1-2_min	39.4	mA	39.4	39.4	39.4	35.3	44.8	P
class_sig_EV1-2_max	41.1	mA	41.1	41.1	41.1	35.3	44.8	P
class_sig_EV3-5_min	27.3	mA	27.3	27.3	27.3	25.5	30.6	P
class_sig_EV3-5_max	28.9	mA	28.9	28.9	28.9	25.5	30.6	P
MarkI	0.99	mA	0.99	0.99	0.99	0.25	4.00	P
Tclass_max	0.4	ms	0.4	0.4	0.4	0.2	5.0	P
lclass_EV1_at_Vmin	40.0	mA	40.0	40.0	40.0	35.5	44.7	P
lclass_EV1_at_Vmax	40.7	mA	40.7	40.7	40.7	35.5	44.7	P
Class_Reset	1		1	1	-	1	1	P
Autoclass	0		0	0	-	0	0	P
Tacs	0.0	ms	0.0	0.0	0.0	0.0	0.0	P

Power-Up / Down

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-1 PHY			<i>PSE Emulation:</i>	On Time:	60 sec	Off Time:	10 sec	Vport:	48.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
2 Pair Powered Type-2 PHY			<i>PSE Emulation:</i>	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-3 PHY			<i>PSE Emulation:</i>	On Time:	60 sec	Off Time:	10 sec	Vport:	50.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered Type-4 PHY			<i>PSE Emulation:</i>	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
4 Pair Powered LLDP			<i>PSE Emulation:</i>	On Time:	180 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F