

PDA-600 BT TEST REPORT

4/12/2019 2:29 PM

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

Software Version: 1.15

PDA Firmware: 2.05

Report Ver: 1

Serial Number 604A0004



Product Tested: Cycles: 1
 Example Type 3 PD, No LLDP

Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		25.46	kohm	25.46	25.46	25.46	23.50	26.60	P
Rdet_final_A		25.41	kohm	25.41	25.41	25.41	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		24.38	kohm	24.38	24.38	24.38	23.50	26.60	P
Rdet_at_Vmax_A		25.68	kohm	25.68	25.68	25.68	23.50	26.60	P
Rdet_Voffset_A		1.3	VDC	1.3	1.3	1.3	0.0	1.9	P
Cdet_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Rdet_B		25.47	kohm	25.47	25.47	25.47	23.50	26.60	P
Rdet_final_B		25.49	kohm	25.49	25.49	25.49	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		24.68	kohm	24.68	24.68	24.68	23.50	26.60	P
Rdet_at_Vmax_B		25.79	kohm	25.79	25.79	25.79	23.50	26.60	P
Rdet_Voffset_B		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P

Classification

ClassNum	6	Units	6	6	-	6	6	P
class_sig_EV1-2_min	38.6	mA	38.6	38.6	38.6	35.3	44.8	P
class_sig_EV1-2_max	39.4	mA	39.4	39.4	39.4	35.3	44.8	P
class_sig_EV3-5_min	9.2	mA	9.2	9.2	9.2	8.8	12.2	P
class_sig_EV3-5_max	11.2	mA	11.2	11.2	11.2	8.8	12.2	P
MarkI	0.51	mA	0.51	0.51	0.51	0.25	4.00	P
Tclass_max	3.2	ms	3.2	3.2	3.2	0.2	5.0	P
lclass_EV1_at_Vmin	38.6	mA	38.6	38.6	38.6	35.5	44.7	P
lclass_EV1_at_Vmax	38.5	mA	38.5	38.5	38.5	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:	10 sec	Off Time:	10 sec	Vport:	48.0	
2 Pair Powered Type-2 PHY		PSE Emulation:	On Time:	10 sec	Off Time:	10 sec	Vport:	50.0	
4 Pair Powered Type-3 PHY		PSE Emulation:	On Time:	30 sec	Off Time:	10 sec	Vport:	50.0	
4 Pair Powered Type-4 PHY		PSE Emulation:	On Time:	30 sec	Off Time:	10 sec	Vport:	52.0	
4 Pair Powered LLDP		PSE Emulation:	On Time:	60 sec	Off Time:	10 sec	Vport:	52.0	

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.

PDA-600 BT TEST REPORT

4/12/2019 2:29 PM

Coverage: **ALT A** **MDI-X** **Type3 Phy**

Software Version: 1.15



Product Tested: Cycles: 1

Color Key: **FAIL** **WARN** **INFO**

PDA Firmware: 2.05

Report Ver: 1

Serial Number 604A0004

Detection

Det_Cycles: 3

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		25.39	kohm	25.39	25.39	25.39	23.50	26.60	P
Rdet_final_A		25.36	kohm	25.36	25.36	25.36	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		24.52	kohm	24.52	24.52	24.52	23.50	26.60	P
Rdet_at_Vmax_A		25.75	kohm	25.75	25.75	25.75	23.50	26.60	P
Rdet_Voffset_A		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Rdet_B		25.47	kohm	25.47	25.47	25.47	23.50	26.60	P
Rdet_final_B		25.44	kohm	25.44	25.44	25.44	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		24.72	kohm	24.72	24.72	24.72	23.50	26.60	P
Rdet_at_Vmax_B		25.75	kohm	25.75	25.75	25.75	23.50	26.60	P
Rdet_Voffset_B		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P

Classification

ClassNum	6	6	6	6	6	6	6	6	P
class_sig_EV1-2_min	38.6	mA	38.6	38.6	38.6	38.6	35.3	44.8	P
class_sig_EV1-2_max	39.4	mA	39.4	39.4	39.4	39.4	35.3	44.8	P
class_sig_EV3-5_min	9.6	mA	9.6	9.6	9.6	9.6	8.8	12.2	P
class_sig_EV3-5_max	11.2	mA	11.2	11.2	11.2	11.2	8.8	12.2	P
MarkI	0.51	mA	0.51	0.51	0.51	0.51	0.25	4.00	P
Tclass_max	3.2	ms	3.2	3.2	3.2	3.2	0.2	5.0	P
Iclass_EV1_at_Vmin	38.9	mA	38.9	38.9	38.9	38.9	35.5	44.7	P
Iclass_EV1_at_Vmax	38.1	mA	38.1	38.1	38.1	38.1	35.5	44.7	P
Class_Reset	1		1	1	1	1	1	1	P
Autoclass	0		0	0	0	0	0	0	P
Tacs	0.0	ms	0.0	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		136.5	mA	136.5	136.5	136.5	0.0	400.0	P
Tinrush_energy		0.031	J	0.031	0.031	0.031	0.000	1.007	P
Iinrush_A		66.8	mA	66.8	66.8	66.8	0.0	400.0	P
Tinrush_energy_A		0.015	J	0.015	0.015	0.015	0.000	1.007	P
Iimax_Tdelay_A		6.4	mA	6.4	6.4	6.4	0.0	400.0	P
Iinrush_B		69.7	mA	69.7	69.7	69.7	0.0	400.0	P
Tinrush_energy_B		0.016	J	0.016	0.016	0.016	0.000	1.001	P
Iimax_Tdelay_B		6.4	mA	6.4	6.4	6.4	0.0	400.0	P
VrefI		1.4	VDC	1.4	1.4	1.4	0.0	2.8	P
Von		40.3	VDC	40.3	40.3	40.3	30.0	42.0	P
Voff		32.5	VDC	32.5	32.5	32.5	30.0	42.0	P
Vhyst		7.7	VDC	7.7	7.7	7.7	0.0	12.0	P

2 Pair Powered Type-1 PHY

PSE Emulation: On Time: 10 sec Off Time: 10 sec Vport: 48.0

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
MinI_1		249.7	mA	249.7	249.7	249.7	0.0	300.6	P
Vport_1		48.0	VDC	48.0	48.0	48.0	37.0	57.0	INFO
Ppeak_1		12.31	W	12.31	12.31	12.31	0.0	14.4	P
Pport_1		11.99	W	11.99	11.99	11.99	0.0	13.0	P
PeakViolation_1		0		0	0	0	0	0	P
MPSViolation_1		0		0	0	0	0	0	P
TcutWindowViolation_1		0		0	0	0	0	0	P
DutyCycleViolation_1		0		0	0	0	0	0	P

2 Pair Powered Type-2 PHY

PSE Emulation: On Time: 10 sec Off Time: 10 sec Vport: 50.0

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
MinI_2		122.4	mA	122.4	122.4	122.4	0.0	571.6	P
Vport_2		49.8	VDC	49.8	49.8	49.8	42.5	57.0	INFO
Ppeak_2		23.13	W	23.13	23.13	23.13	0.0	28.3	P
Pport_2		23.00	W	23.00	23.00	23.00	0.0	25.5	P
PeakViolation_2		0		0	0	0	0	0	P
MPSViolation_2		0		0	0	0	0	0	P
TcutWindowViolation_2		0		0	0	0	0	0	P
DutyCycleViolation_2		0		0	0	0	0	0	P

4 Pair Powered Type-3 PHY

PSE Emulation: On Time: 30 sec Off Time: 10 sec Vport: 50.0

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
MinI_3		65.2	mA	65.2	65.2	65.2	0.0	718.0	P
Vport-2P_3_A		49.7	VDC	49.7	49.7	49.7	42.5	57.0	INFO
Vport-2P_3_B		49.3	VDC	49.3	49.3	49.3	42.5	57.0	INFO
Ppeak_3		30.86	W	30.86	30.86	30.86	0.0	53.5	P
Pport_3		30.72	W	30.72	30.72	30.72	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: 30 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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4 Pair Powered LLDP

PSE Emulation: On Time: 60 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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PDA-600 BT TEST REPORT

4/12/2019 2:29 PM

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

Software Version: 1.15

PDA Firmware: 2.05

Report Ver: 1

Serial Number 604A0004



Product Tested: Example Type 3 PD, No LLDP
 Cycles: 1

Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		25.46	kohm	25.46	25.46	25.46	23.50	26.60	P
Rdet_final_A		25.51	kohm	25.51	25.51	25.51	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		24.55	kohm	24.55	24.55	24.55	23.50	26.60	P
Rdet_at_Vmax_A		25.66	kohm	25.66	25.66	25.66	23.50	26.60	P
Rdet_Voffset_A		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Rdet_B		25.54	kohm	25.54	25.54	25.54	23.50	26.60	P
Rdet_final_B		25.47	kohm	25.47	25.47	25.47	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		24.62	kohm	24.62	24.62	24.62	23.50	26.60	P
Rdet_at_Vmax_B		25.71	kohm	25.71	25.71	25.71	23.50	26.60	P
Rdet_Voffset_B		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P

Classification

ClassNum	6		6	6	-	6	6	P
class_sig_EV1-2_min	38.6	mA	38.6	38.6	38.6	35.3	44.8	P
class_sig_EV1-2_max	39.4	mA	39.4	39.4	39.4	35.3	44.8	P
class_sig_EV3-5_min	9.6	mA	9.6	9.6	9.6	8.8	12.2	P
class_sig_EV3-5_max	11.2	mA	11.2	11.2	11.2	8.8	12.2	P
MarkI	0.51	mA	0.51	0.51	0.51	0.25	4.00	P
Tclass_max	3.2	ms	3.2	3.2	3.2	0.2	5.0	P
lclass_EV1_at_Vmin	38.6	mA	38.6	38.6	38.6	35.5	44.7	P
lclass_EV1_at_Vmax	38.6	mA	38.6	38.6	38.6	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:	10 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:	10 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:	30 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:	30 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:	60 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F

PDA-600 BT TEST REPORT

4/12/2019 2:29 PM

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

Software Version: 1.15

PDA Firmware: 2.05

Report Ver: 1

Serial Number 604A0004



Product Tested: Example Type 3 PD, No LLDP
 Cycles: 1

Detection

Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
SigType		SINGLE	-	-	-	-	SINGLE	SINGLE	P
Rdet_A		25.44	kohm	25.44	25.44	25.44	23.50	26.60	P
Rdet_final_A		25.41	kohm	25.41	25.41	25.41	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		24.47	kohm	24.47	24.47	24.47	23.50	26.60	P
Rdet_at_Vmax_A		25.77	kohm	25.77	25.77	25.77	23.50	26.60	P
Rdet_Voffset_A		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_A		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Rdet_B		25.49	kohm	25.49	25.49	25.49	23.50	26.60	P
Rdet_final_B		25.44	kohm	25.44	25.44	25.44	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		24.59	kohm	24.59	24.59	24.59	23.50	26.60	P
Rdet_at_Vmax_B		25.93	kohm	25.93	25.93	25.93	23.50	26.60	P
Rdet_Voffset_B		1.4	VDC	1.4	1.4	1.4	0.0	1.9	P
Cdet_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P
Cdet_final_B		0.11	uF	0.11	0.11	0.11	0.04	0.13	P

Classification

ClassNum	6		6	6	-	6	6	P
class_sig_EV1-2_min	38.6	mA	38.6	38.6	38.6	35.3	44.8	P
class_sig_EV1-2_max	39.8	mA	39.8	39.8	39.8	35.3	44.8	P
class_sig_EV3-5_min	9.2	mA	9.2	9.2	9.2	8.8	12.2	P
class_sig_EV3-5_max	11.2	mA	11.2	11.2	11.2	8.8	12.2	P
MarkI	0.51	mA	0.51	0.51	0.51	0.25	4.00	P
Tclass_max	3.2	ms	3.2	3.2	3.2	0.2	5.0	P
lclass_EV1_at_Vmin	38.6	mA	38.6	38.6	38.6	35.5	44.7	P
lclass_EV1_at_Vmax	38.2	mA	38.2	38.2	38.2	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:	10 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:	10 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:	30 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:	30 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:	60 sec	Off Time:	10 sec	Vport:	52.0
Parameter	Cycle:	1	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F

