

# PDA-600 AT TEST REPORT

December 3, 2021 3:08 PM

Product Tested: Cycles: 2  
 Sample Class 4 PD

Coverage: ALT A MDI Type-1  
 ALT B MDI-X Type-2 PHY  
 Color Key: Type-2 LLDP  
 PASS FAIL WARN INFO

Software Version: 2.3.0.2  
 PDA Firmware: 2.08  
 Report Ver: 2.10  
 Serial Number 602B0161



## Detection & Classification

Parameter	Cycle:	PSE Emulation:		Pairs:		A		Polarity:		MDI-X		Det_Cycles:	3
		1	2	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F			
Rdet		25.38	25.43	kohm	25.38	25.43	25.41	23.70	26.30	P			
Rdet_final		25.45	25.38	kohm	25.38	25.45	25.42	23.70	26.30	P			
Rdet_unpwr		>99.00	>99.00	kohm	99.00	99.00	99.00	<12.00	>45.00	P			
Rdet_at_Vmin		24.98	25.02	kohm	24.98	25.02	25.00	23.70	26.30	P			
Rdet_at_Vmax		25.27	25.20	kohm	25.20	25.27	25.24	23.70	26.30	P			
Rdet_Voffset		1.0	1.0	VDC	1.0	1.0	1.0	0.0	1.9	P			
Cdet		0.10	0.09	uF	0.09	0.10	0.10	0.05	0.12	P			
Cdet_final		0.10	0.09	uF	0.09	0.10	0.10	0.05	0.12	P			
1 Event Classification													
Iclass		40.1	40.1	mA	40.1	40.1	40.1	36.0	44.0	P			
ClassNum		4	4		4	4	-	0	4	P			
Tclass		0.0005	0.0005	sec	0.0005	0.0005	0.0005	0.0005	0.0050	P			
ClassStability		1	1					1	1	P			
Iclass_at_Vmin		38.9	38.8	mA	38.8	38.9	38.8	36.0	44.0	P			
Iclass_at_Vmax		40.1	40.6	mA	40.1	40.6	40.4	36.0	44.0	P			
2 Event Classification													
Iclass_event1		40.1	40.1	mA	40.1	40.1	40.1	36.0	44.0	P			
Iclass_event2		40.1	40.1	mA	40.1	40.1	40.1	36.0	44.0	P			
MarkI		2.13	2.15	mA	2.13	2.15	2.14	0.25	4.00	P			
ClassNum2		4	4		4	4	-	0	4	P			
Tclass_event1		0.0005	0.0005	sec	0.0005	0.0005	0.0005	0.0005	0.0050	P			
Tclass_event2		0.0005	0.0005	sec	0.0005	0.0005	0.0005	0.0005	0.0050	P			
ClassStability_event1		1	1					1	1	P			
ClassStability_event2		1	1					1	1	P			

## Power-Up / Down

Parameter	Cycle:	1	2	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F
Inrush1_1		391.6	391.5	mA	391.5	391.6	391.6	0.0	400.0	P
Inrush1_2		391.2	391.2	mA	391.2	391.2	391.2	0.0	400.0	P
IlimMinViolation		0	0		0	0	-	0	0	P
Pmax_Tdelay		2.3	2.3	W	2.3	2.3	2.3	0.0	14.4	P
Inrush_delayed		0	0		0	0	-	0	0	P
Von		36.9	36.9	VDC	36.9	36.9	36.9	30.0	42.0	P
Voff		33.5	33.4	VDC	33.4	33.5	33.5	30.0	42.0	P
Vhyst		3.3	3.4	VDC	3.3	3.4	3.4	2.8	12.0	INFO
BackfeedV		0.0	0.0	VDC	0.0	0.0	0.0	0.0	2.8	P
ClassRecover		0	0		0	0	-	0	0	P
SigRecoverTime		0.0	0.0	sec	0.0	0.0	0.0	0.0	30.0	P

## MDI Powered Type-1

		PSE Emulation:		On Time:		20 sec		Off Time:		10 sec		Vport:		56.0	
Parameter	Cycle:	1	2	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F					
Min1_1		40.2	40.2	mA	40.2	40.2	40.2	0.0	258.6	P					
Max1_1		244.3	244.4	mA	244.3	244.4	244.4	10.0	258.6	P					
Vport_1		55.6	55.6	VDC	55.6	55.6	55.6	37.0	57.0	INFO					
Ppeak_1		13.59	13.60	W	13.59	13.60	13.59	0.0	14.4	P					
Pavg_1		12.18	12.18	W	12.18	12.18	12.18	0.0	13.0	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					

## MDI Powered Type-2 PHY

		PSE Emulation:		On Time:		20 sec		Off Time:		10 sec		Vport:		43.5	
Parameter	Cycle:	1	2	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F					
Min1_2		39.5	39.5	mA	39.5	39.5	39.5	0.0	663.7	P					
Max1_2		637.8	637.8	mA	637.8	637.8	637.8	10.0	663.7	P					
Vport_2		42.6	42.6	VDC	42.6	42.6	42.6	42.5	57.0	INFO					
Ppeak_2		27.17	27.19	W	27.17	27.19	27.18	0.0	28.3	P					
Pavg_2		24.41	24.41	W	24.41	24.41	24.41	0.0	25.5	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					

## MDI Powered Type-2 LLDP

		PSE Emulation:		On Time:		-1 sec		Off Time:		10 sec		Vport:		-1.0	
Parameter	Cycle:	1	2	Units	Min.	Max.	Average	Low Lim.	High Lim.	P/F					

NOTE: Type-2 testing did not include LLDP, so PD Data Link Layer characteristics were not checked.

PD Conformance Test Suite Parameters

Parameter	Description	Units	Acceptance Criteria (802.3at references)	PICS
<b>Detection &amp; Classification</b>				
<b>Rdet</b>	Detection resistance (2.7 to 10.1 V band) from a single probe.	K $\Omega$	23.7 to 26.3	PD7
<b>Rdet_final</b>	Detection resistance after multiple detection and classification probing sequences. Evaluate response to PSE's that probe repeatedly prior to power-up.	K $\Omega$	802.3at Table 33-14	PD8 PD11
<b>Rdet_at Vmin</b>	Detection resistance at different chords in the 2.7 to 10.1 V band. (not supported by PDA-602A)	K $\Omega$	802.3at Table 33-14	PD10 (partial)
<b>Rdet_at Vmax</b>	Non-valid detection resistance presented by the unpowered pairset.	K $\Omega$	< 12 or > 45 802.3at para. 33.3.4, Table 33-15	PD9
<b>Rdet_unpwr</b>				
<b>Cdet</b>	Detection capacitance (2.7 to 10.1 V band)	$\mu$ F	0.05 to 0.12 802.3at Table 33-14	PD8 PD11
<b>Cdet_final</b>	Detection capacitance after multiple detection and classification probing sequences. Evaluate response to PSE's that probe repeatedly prior to power-up.			
<b>Iclass</b>	Classification current signature, 1 event classification.	mA	0-4, 9-12, 17-20, 26-30, or 36-44	PD12 PD13
<b>ClassNum</b>	PD Class determined from Iclass	PD Class	0, 1, 2, 3, or 4 (respectively)	PD14 (partial)
<b>Iclass_at Vmin</b>	Classification current signature at low and high edge of 14.5 - 20.5 V band.	mA	0-4, 9-12, 17-20, 26-30, or 36-44	PD15 PD16
<b>Iclass_at Vmax</b>	(not supported by PDA-602A)		802.3at Tables 33-16, 33-17	PD17 PD18
<b>Tclass</b>	Time from when Vport = 15.5VDC until class current reaches valid level	seconds	< 0.005 802.3at 33.3.7.8 & Table 33-18	PD19 (partial) PD20 PD21
<b>ClassStability</b>	Class current remains in valid range during classification period that ranges from 6-75 msec	flag (1 or 0)	All class samples = Iclass 802.3at para. 33.3.7.8	PD22 PD23
<b>Iclass_event1</b>	Classification current signature during 1st Classification pulse, 2-Event classification.	mA	0-4, 9-12, 17-20, 26-30, or 36-44 802.3at Table 33-16	PD42
<b>Iclass_event2</b>	Classification current signature during 2nd Classification pulse, 2-Event classification.	mA		
<b>MarkI</b>	Current drawn during mark region of 2-Event classification.	mA	0.25 to 4 802.3at Table 33-17	
<b>ClassNum2</b>	PD Class determined from Iclass during 2-Event classification.	PD Class	0, 1, 2, 3, or 4	
<b>Tclass_event1</b>	Time from when Vport = 15.5VDC until class current reaches valid level, during 1st Classification pulse, 2-Event classification	seconds	< 0.005 802.3at 33.3.7.8 & Table 33-18	
<b>Tclass_event2</b>	Time from when Vport = 15.5VDC until class current reaches valid level, during 2nd Classification pulse, 2-Event classification	seconds		
<b>ClassStability_event1</b>	Class current remains in valid range during classification period, 1st class pulse.	flag (1 or 0)	All class samples = Iclass 802.3at para. 33.3.7.8	
<b>ClassStability_event2</b>	Class current remains in valid range during classification period, 2nd class pulse.	flag (1 or 0)		
<b>Power-Up / Down</b>				
<b>InrushI_1</b>	Highest current drawn during the first 50 msec after power on. Power on is preceded by a 1 event classification.	mA	< 400mA A PD may draw more than 400mA if it presents capacitive load, Cport < 180 $\mu$ F. Because Cport cannot be measured, out-of-limit performance is flagged with WARN, not FAIL. 802.3at Table 33-18 & para. 33.3.7.3.	PD30 PD31
<b>InrushI_2 (Type-2 testing)</b>	Highest current drawn during the first 50 msec after power on. Power on is preceded by a 2 event classification.	mA		
<b>Pmax_Tdelay (Type-2 testing)</b>	Highest power consumed during the period from 50 msec to 80 msec after power-up that is preceded by 2-Event classification.	watts	< 14.4 A Type-2 PD must not draw a peak power exceeding Type-1 PD maximum peak power of 14.4W during 30msec between end of inrush and Tdelay. 802.3at para. 33.3.7.3.	
<b>Inrush_delayed</b>	Flags a PD behavior where the start of inrush is delayed by more than 1ms after power-up and where inrush level (>400mA) may require current limiting by a PSE. PD's that delay inrush and exceed 400mA may not experience 450mA current limiting by a PSE that applies the "legacy_powerup" exception. See 802.3at para. 3.2.4.4.	flag (1 or 0)	flag=0 if: Inrush Current < 400 mA or Inrush Current (@ > 1 msec) $\leq$ Current (@ < 1 msec)	
<b>IlimMinViolation</b>	Flags a PD behavior where the DUT draws >400mA after T <sub>inrush</sub> has completed, when the PD is powered following 1 event classification. This may cause current limiting by a PSE, and the resulting reduction in voltage could cause the PD to not successfully power on. (this check was added based on an interop problem case)	flag (1 or 0)	flag=0 if Current > 400 mA during the 1.5 second interval starting at the completion of T <sub>inrush</sub> .	PD33
<b>Von</b>	Voltage at which PD starts to draw load current	VDC	30 to 42, 802.3at Table 33-18	PD25
<b>Voff</b>	Voltage at which PD stops drawing load current	VDC	> 30, 802.3at Table 33-18. WARN if > 37VDC, based on the lowest voltage that a Type 1 PSE could provide.	PD27 PD28
<b>Vhyst</b>	Hysteresis band between Von and Voff.	VDC	Provided for information purposes. There is no explicit value for hysteresis specified in Table 33-18, but the need for hysteresis is implied by 802.3at para. 33.3.7.1 (startup oscillation).	
<b>BackfeedV</b>	Voltage present on the unpowered pair with Vport_PD max applied. Unpowered pair is terminated with 100K $\Omega$ .	VDC	0 to 2.8 802.3at Table 33-18, para. 33.3.7.9	PD43
<b>ClassRecover</b>	Flag indicating that PD classification signature following power removal and PD restoration of a potentially acceptable detection signature (i.e. between 15K $\Omega$ and 33K $\Omega$ ) does not match expected PD classification signature.	flag (1 or 0)	A value of "1" will be reported with a WARN status because PSE's will possibly mis-classify this PD following power-removal events.	
<b>SigRecoverTime</b>	Time to restore expected PD classification signature if ClassRecover is reported as "1". Otherwise, value reported is "0 sec". Measured from PD shutdown.	seconds	A PD need not present a valid classification signature until that PD first presents a valid detection signature, so there is no clear specification time limit.	
<b>MDI Powered Type-1</b>				
<b>MinI_1</b>	PD-under-test powered to Type-1 Vport with 1-Event Classification Minimum current drawn by the PD while powered on at Type-1 Vport_PD	mA	0 to (Pclass_PD / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18	PD24 (partial) PD26
<b>MaxI_1</b>	Maximum current drawn by the PD while powered on at Type-1 Vport_PD. The maximum current must exceed Iport_mps.	mA	10 to (Pclass_PD / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18 Iport_mps > 10, 802.3at para. 33.3.8	PD29 PD32 PD33
<b>Vport_1</b>	Vport level at the point where the MaxI_1 occurs.	V	VPort_PD should conform to ranges in 802.3at Table 33-18	PD34 (partial) PD35
<b>Ppeak_1</b>	Maximum instantaneous power consumed by the PD while powered on at Type-1 Vport_PD	watts	< PPeak_PD (for PD Classification) 802.3at Table 33-18, para. 33.3.7.4	PD37
<b>Pavg_1</b>	Average power (1 second moving window) consumed by the PD while powered on a Type-1 Vport_PD	watts	< Pclass_PD (for PD Classification) 802.3at Table 33-18, para. 33.3.7.2	**only if MPS low pwr PD44
<b>MPSViolation_1</b>	Flag indicating PD did not satisfy DC Maintain Power Signature (MPS) and will be potentially subject to shutdown by a PSE using DC MPS method.	flag (1 or 0)	In order to stay powered, the PD must draw > 10mA for a time period > 75 msec out of every 325 msec time interval. 802.3at para. 33.3.8	PD45
<b>TcutWindowViolation_1</b>	Flag indicating that PD power draw exceeded Pclass_PD for longer than Tcut_min (50 msec). PD is at risk of overload shutdown by PSE.	flag (1 or 0)	In order to stay powered, transient loads may not exceed Pclass_PD for time duration > Tcut_min, or 50 msec. 802.3at para. 33.3.7.4.	
<b>DutyCycleViolation_1</b>	Flag indicating that PD power draw is exceeding Pclass_PD for greater than 5% of the time. PD is at risk of overload shutdown by PSE.	flag (1 or 0)	In order to stay powered, transient loads may not exceed Pclass_PD for > 5% duty cycle. 802.3at para. 33.3.7.4.	
<b>MDI Powered Type-2</b>				
<b>MinI_2</b>	PD-under-test powered to Type-2 Vport with 2-Event Classification Minimum current drawn by the PD while powered on at Type-2 Vport_PD prior to LLDP power allocation.	mA	0 to (25.5W / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18	PD24 (partial) PD26
<b>MaxI_2</b>	Maximum current drawn by the PD while powered on at Type-2 Vport_PD prior to LLDP power allocation. The maximum current must exceed Iport_mps.	mA	10 to (25.5W / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18 Iport_mps > 10, 802.3at para. 33.3.8	PD29 PD32 PD33
<b>Vport_2</b>	Vport level at the point where the MaxI_2 occurs.	V	VPort_PD should conform to ranges in 802.3at Table 33-18	PD34 (partial) PD35
<b>Ppeak_2</b>	Maximum instantaneous power consumed by the PD while powered on at Type-2 Vport_PD	watts	< 28.3 802.3at Table 33-18, para. 33.3.7.4	PD37
<b>Pavg_2</b>	Average power (1 second moving window) consumed by the PD while powered on a Type-2 Vport_PD	watts	< 25.5 802.3at Table 33-18, para. 33.3.7.2	**only if MPS low pwr PD44
<b>MPSViolation_2</b>	Flag indicating PD did not satisfy DC Maintain Power Signature (MPS) and will be potentially subject to shutdown by a PSE using DC MPS method.	flag (1 or 0)	In order to stay powered, the PD must draw > 10mA for a time period > 75 msec out of every 325 msec time interval. 802.3at para. 33.3.8	PD45
<b>TcutWindowViolation_2</b>	Flag indicating that PD power draw exceeded 25.5W for longer than Tcut_min (50 msec). PD is at risk of overload shutdown by PSE.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 25.5W for time duration > Tcut_min, or 50 msec. 802.3at para. 33.3.7.4.	

DutyCycleViolation_2	Flag indicating that PD power draw is exceeding 25.5W for greater than 5% of the time. PD is at risk of overload shutdown by PSE.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 25.5W for > 5% duty cycle. 802.3at para. 33.3.7.4.	
<b>PD-under-test powered to Type-2 Vport with 1-Event Classification and subsequent LLDP Negotiation</b>				
MDI Powered Type-2 LLDP	Minimum current drawn by the PD while powered on at Type-2 Vport_PD prior to LLDP power allocation.	mA	0 to (13W / VPort_PD) 802.3at para. 33.3.3.5, Table 33-18	PD24 (partial) PD26 PD29 PD32 PD33
MaxI_PreAlloc	Maximum current drawn by the PD while powered on at Type-2 Vport_PD prior to LLDP power allocation. The maximum current must exceed Iport_mps.	mA	10 to (13W / VPort_PD) 802.3at para. 33.3.3.5, Table 33-18 Iport_mps > 10, 802.3at para. 33.3.8	PD34 (partial) PD35
Vport_PreAlloc	Vport level at the point where the MaxI_PreAlloc occurs.	V	VPort_PD should conform to ranges in 802.3at Table 33-18	PD37 PD44 PD45 DLL4 DLL9 DLL11
Peak_PreAlloc	Maximum power consumed by the PD while powered on at Type-2 Vport prior to LLDP power allocation.	watts	< 14.4 802.3at Table 33-18, para. 33.3.3.5	
Pavg_PreAlloc	Average power (1 second moving window) consumed by the PD while powered on at Type-2 Vport prior to LLDP power allocation.	watts	< 25.5 802.3at Table 33-18, para. 33.3.3.5	
MPSViolation_PreAlloc	Flag indicating PD did not satisfy DC Maintain Power Signature (MPS) and will be potentially subject to shutdown by a PSE using DC MPS method. Measured before LLDP power allocation.	flag (1 or 0)	In order to stay powered, the PD must draw > 10mA for a time period > 75 msec out of every 325 msec time interval. 802.3at para. 33.3.8.	
TcutWindowViolation_PreAlloc	Flag indicating that PD power draw exceeded 13W for longer than Tcut_min (50 msec). PD is at risk of overload shutdown by PSE. Measured before LLDP power allocation.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 13W for time duration > Tcut_min, or 50 msec. 802.3at para. 33.3.7.4.	
DutyCycleViolation_PreAlloc	Flag indicating that PD power draw is exceeding 13W for greater than 5% of the time. PD is at risk of overload shutdown by PSE. Measured before LLDP power allocation.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 13W for > 5% duty cycle. 802.3at para. 33.3.7.4.	
MinI_PostAlloc	Minimum current drawn by the PD while powered on at Type-2 Vport_PD following LLDP power allocation.	mA	0 to (Pclass_PD / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18	
MaxI_PostAlloc	Maximum current drawn by the PD while powered on at Type-2 Vport_PD following LLDP power allocation.	mA	10 to (Pclass_PD / VPort_PD) 802.3at para. 33.3.7.4, Table 33-18 Iport_mps > 10, 802.3at para. 33.3.8	
Vport_PostAlloc	Vport level at the point where the MaxI_PostAlloc occurs.	V	VPort_PD should conform to ranges in 802.3at Table 33-18	
Peak_PostAlloc	Maximum power consumed by the PD while powered on at Type-2 Vport_PD following LLDP power allocation.	watts	≤ Ppeak_PD 802.3at Table 33-18, para. 33.3.3.5	
Pavg_PostAlloc	Average power (1 second moving window) consumed by the PD while powered on at Type-2 Vport_PD following LLDP power allocation.	watts	≤ Pclass_PD 802.3at Table 33-18, para. 33.3.3.5	
MPSViolation_PostAlloc	Flag indicating PD did not satisfy DC Maintain Power Signature (MPS) and will be potentially subject to shutdown by a PSE using DC MPS method. Measured after LLDP power allocation.	flag (1 or 0)	In order to stay powered, the PD must draw > 10mA for a time period > 75 msec out of every 325 msec time interval. 802.3at para. 33.3.8.	
WindowViolation_PostAlloc	Flag indicating that PD power draw exceeded Pclass_PD for longer than Tcut_min (50 msec). PD is at risk of overload shutdown by PSE. Measured after LLDP power allocation.	flag (1 or 0)	In order to stay powered, transient loads may not exceed Pclass_PD for time duration > Tcut_min, or 50 msec. 802.3at para. 33.3.7.4.	
DutyCycleViolation_PostAlloc	Flag indicating that PD power draw is exceeding Pclass_PD for greater than 5% of the time. PD is at risk of overload shutdown by PSE. Measured after LLDP power allocation.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 13W for > 5% duty cycle. 802.3at para. 33.3.7.4.	
MinI_AfterThrottle	Minimum current drawn by the PD while powered on at Type-2 Vport_PD and following allocation reduction (or power demotion) by PSE.	mA	0 to (13W / VPort_PD) INFO limit - not a required behavior - 802.3at para. 33.6.3.5	
MaxI_AfterThrottle	Maximum current drawn by the PD while powered on at Type-2 Vport_PD and following allocation reduction (or power demotion) by PSE.	mA	10 to (13W / VPort_PD) INFO limit - not a required behavior - 802.3at para. 33.6.3.5 Iport_mps > 10, 802.3at para. 33.3.8	
Vport_AfterThrottle	Vport level at the point where the MaxI_AfterThrottle occurs.	V	VPort_PD should conform to ranges in 802.3at Table 33-18	
Peak_AfterThrottle	Maximum power consumed by the PD while powered on at Type-2 Vport_PD and following allocation reduction (or power demotion) by PSE.	watts	< 14.4 INFO limit - not a required behavior - 802.3at para. 33.6.3.5	
Pavg_AfterThrottle	Average power (1 second moving window) consumed by the PD while powered on at Type-2 Vport_PD and following allocation reduction (or power demotion) by PSE.	watts	< 25.5 INFO limit - not a required behavior - 802.3at para. 33.6.3.5	
MPSViolation_AfterThrottle	Flag indicating PD did not satisfy DC Maintain Power Signature (MPS) and will be potentially subject to shutdown by a PSE using DC MPS method. Measured after LLDP power demotion.	flag (1 or 0)	In order to stay powered, the PD must draw > 10mA for a time period > 75 msec out of every 325 msec time interval. 802.3at para. 33.3.8.	
TcutWindowViolation_AfterThrottle	Flag indicating that PD power draw exceeded 13W for longer than Tcut_min (50 msec). PD is at risk of overload shutdown by PSE. Measured after LLDP power demotion.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 13W for time duration > Tcut_min, or 50 msec. 802.3at para. 33.3.7.4.	
DutyCycleViolation_AfterThrottle	Flag indicating that PD power draw is exceeding 13W for greater than 5% of the time. PD is at risk of overload shutdown by PSE. Measured after LLDP power demotion.	flag (1 or 0)	In order to stay powered, transient loads may not exceed 13W for > 5% duty cycle. 802.3at para. 33.3.7.4.	
<b>PD LLDP Protocol Parameters</b>				
TimeToLink	Length of time from power-up until LAN link was established. Reports '-1' if no link established.	seconds	Information parameter (INFO).	
LinkSpeed	Speed of the LAN link. Reports '-1' if no link established.	10   100   1000	Information parameter (INFO).	
FirstReqTime	Length of time after power-up until first LLDP Power-via-MDI request received.	seconds	Information parameter (INFO). 802.3at requires that a Type-2 PD should link and initiate LLDP within 5 minutes of power-up.	
PowerRequest	Contents of the PD requested power value field in the Power-via-MDI TLV.	watts	0.1 to 25.5 802.3 Clause 79.3.2.5	DLL2 DLL3 DLL4 DLL9
PDAckTime	Length of time for transmission of an updated LLDPU after an LLDPU with a new PSE allocated power value is received by the PD.	seconds	< 10 802.3at para. 33.6.2	DLL11
AllocPowerEchoed	Contents of the PSE allocated power value from the LLDPU acknowledgement sent by the PD.	watts	= Allocated power value sent by PDA-600 – this will be same as PowerRequest so long as PowerRequest is valid value..	
ThrottleAckTime	The length of time it takes the PD to acknowledge receiving the new alloc value.	seconds	< 10 seconds 802.3at para. 33.6.2	
ThrottlePowerReq	The PD requested power value field in the LLDPU containing the Throttle Ack.	watts	Information parameter (INFO). A PD is not required to alter its power request after power demotion.	