

# PADS Hardware Specification

All specifications subject to change without notice.

Instrument	Function				
AWA	Provides Simultaneous Data Acquisition and Stimulus				
	<b>Analog</b>				
	<b>Input</b>		<b>Output</b>		
	Differential Channels	64	Number of Channels	20	
	Resolution	16 Bits	Resolution	16 Bits	
	Maximum Voltage Range		Maximum Voltage Range		
	Range	-42 V to 42 V	Range	-10 V to 10 V	
	Accuracy	2.498 mV	Accuracy	3.066 mV	
	Minimum Voltage Range		Minimum Voltage Range		
	Range	-1 V to 1 V	Range	-5 V to 5 V	
	Accuracy	291µV	Accuracy	1.526 mV	
	Simultaneous Sampling	2 MS/s	Update Rate	3.33MS/s	
	<b>Digital</b>				
	Bidirectional Channels		128		
	Timing		Hardware Software		
	Clocked Lines		32		
	Maximum Clock Rate		10 MHz		
	Logic Levels		TTL		
	Programmable Input Filters				
	Supports Programmable Power-Up States				
	<b>Input</b>		<b>Output</b>		
	Type	Sinking Source	Type	Sinking Source	
	Maximum Voltage Range	0 V to 5 V	Maximum Voltage Range	0 V to 5 V	
			Current Drive Single	24 mA	
			Current Drive All	1 A	
	<b>DMM</b>				
	DC Voltage		300 V		
	AC Voltage		300 V		
	Resistance		Two or Four Wire		
	Channels		32		
	DC Power Supply	Contains four (4) discrete, programmable power supply modules (channels). All power supply modules can be programmed for positive and negative output.			
			Voltage Range (VDC)	Max Current (Amps)	Output Power Rating (Watts)
Channel 1		0 - 32	2	64	
Channel 2		0 - 32	2	64	
Channel 3		0 - 32	2	64	
Channel 4	0 - 32	2	64		

