

Introduction

S310 DAQ PC-104 (PCI) 24 bit Analog Input (16SE/8DI), 16 bit Analog Output (8), 48 DIO

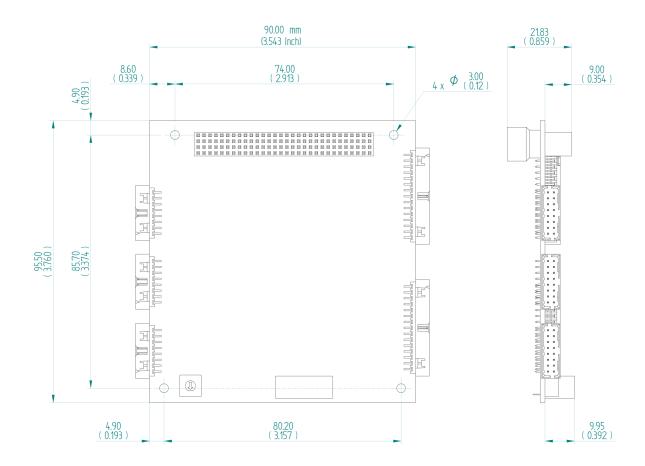


Specification

	0010 510 6 111		
Features	S310 DAQ for high precision measurement and control, Industrial Automation, Precision Instruments, OEM applications		
Analog Input	Resolution	24 bit	
	Speed	1.12 kS/s shared between channels	
	Number of channels	16 Single Ended (SE) or 8 Differential (DI)	
	Range	-10 to +10 V;	
	PGA	Programmable Gain Amplifier in binary steps from 0.125 up to 128 V/V	
Analog Output	Resolution	16 bit	
	Speed	1.2 MS/s, settling time 500 ns	
	Number of channels	8	
	Range	-10 to $+10V$; -5 to $+5V$; configurable in banks of 4	
Triggering		Software, Circular buffer	
DIO	Number of channels	48	
	Current	-16/24 mA per channel. Proper power supply should be selected if all channels are used at max capacity	
	Input / output	Any combination of banks of 8 (6 banks of 8). All pins individually controlled.	
	Level	+5 V	
Bus	PCI	PC-104 form factor, 33 MHz 32 bit	
	Voltage	Universal 3.3 or 5 V	
DSP	DM6437 (TI)	4800 MIPS and 240kB on chip if real time calculation required	
OS	Linux	Linux API documentation. Extensive example program provided covering all functions Windows driver can developed if requested.	
Power		Single +5 power supply, 3 W typical	
Calibration		2.5 V and 5.0 V independent high precision reference voltage on board with 5 ppm/C drift max, (3 ppm/C typical)	
Connectors		Standard 2 mm DIL headers for Analog (16 pin) and Digital (30 pin)	
Dimensions (WxHxD)		90 x 96 x 12 mm (PC-104)	
Weight		100 g	
Temperature		Storage -55 to 100 C; Operational -20 to 85 C	



Mechanical Information



Parameter	Value	Unit
Length	3.54 (90)	Inch (mm)
Width	3.76 (95.5)	Inch (mm)
Height	0.85 (21.8)	Inch (mm)
Weight	100	gram