Sleipnir Operators Manual

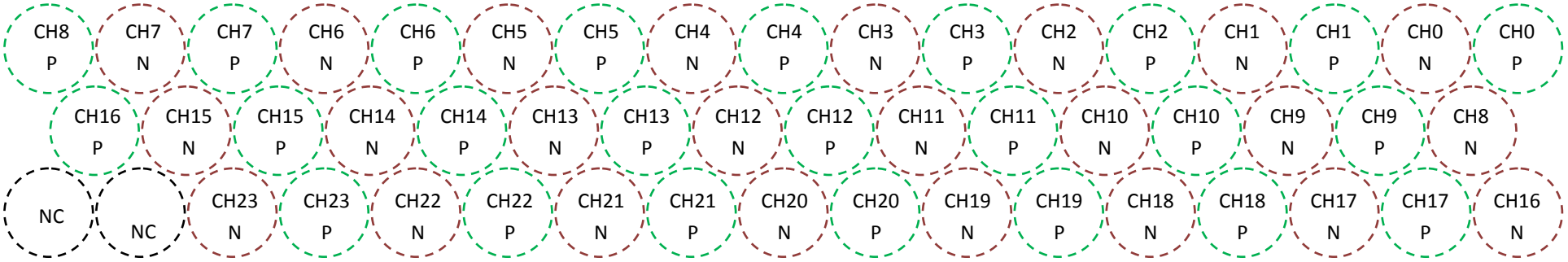
24 Channel, 10µA DC bias, two wire measurement; Serial : UDT670-J0002

DD-50	CHAN.	ADDRESS
PIN 1	**CH0 P**	001 1 0 000
PIN 2	*CH0 N*	
PIN 3	**CH1 P**	001 1 1 000
PIN 4	*CH1 N*	
PIN 5	**CH2 P**	001 1 0 001
PIN 6	*CH2 N*	
PIN 7	**CH3 P**	001 1 1 001
PIN 8	*CH3 N*	
PIN 9	**CH4 P**	001 1 0 010
PIN 10	*CH4 N*	
PIN 11	**CH5 P**	001 1 1 010
PIN 12	*CH5 N*	
PIN 13	**CH6 P**	001 1 0 011
PIN 14	*CH6 N*	
PIN 15	**CH7 P**	001 1 1 011
PIN 16	*CH7 N*	

DD-50	CHAN.	ADDRESS
PIN 17	**CH8 P**	001 1 0 100
PIN 18	*CH8 N*	
PIN 19	**CH9 P**	001 1 1 100
PIN 20	*CH9 N*	
PIN 21	**CH10 P**	001 1 0 101
PIN 22	*CH10 N*	
PIN 23	**CH11 P**	001 1 1 101
PIN 24	*CH11 N*	
PIN 25	**CH00 P**	010 1 0 000
PIN 26	*CH00 N*	
PIN 27	**CH01 P**	010 1 1 000
PIN 28	*CH01 N*	
PIN 29	**CH02 P**	010 1 0 001
PIN 30	*CH02 N*	
PIN 31	**CH03 P**	010 1 1 001
PIN 32	*CH03 N*	

DD-50	CHAN.	ADDRESS
PIN 33	**CH04 P**	010 1 0 010
PIN 34	*CH04 N*	
PIN 35	**CH05 P**	010 1 1 010
PIN 36	*CH05 N*	
PIN 37	**CH06 P**	010 1 0 011
PIN 38	*CH06 N*	
PIN 39	**CH07 P**	010 1 1 011
PIN 40	*CH08 N*	
PIN 41	**CH09 P**	010 1 0 100
PIN 42	*CH20 N*	
PIN 43	**CH10 P**	010 1 1 100
PIN 44	*CH21 N*	
PIN 45	**CH11 P**	010 1 0 101
PIN 46	*CH22 N*	
PIN 47	**CH12 P**	010 1 1 101
PIN 48	*CH23 N*	

DD-50	CHAN.	ADDRESS
PIN 49	GPAD 1	001 0 **x** 110
PIN 50	GPAD 2	
	SRS Like Kelvin Breakout (left)	
1	10 uA	
2	GND	
4	GP3	001 0 **x** 111
5	GP4	
	SRS Like Kelvin Breakout (right)	
1	10 uA	
2	GND	
4	GP 5	010 0 **x** 110
5	GP 6	



Sleipnir can be powered from external power supplied via a two pin Bendix connector:

- Pin A is +5V.
- Pin B is GND.

Alternatively the ADC's within Sleipnir can also be powered from USB power. The PCB must be configured properly via 0 Ohm jumpers, the analog section can either be fully isolated or connected. If the ADCs are externality powered, care must be taken to properly tie the grounds together. Otherwise communication will fail.

The analog section can also power the digital section, this can be useful if a USB isolator is used.

The L-COM 50 Pin D-Sub Cable assembly, part number CSMN50MM, is recommended, due to its matching twisted pair configuration.

Note: the 10 µA DC bias is intended for Diode measurements, as it does not have the required precision for resistive measurements.

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ADC ONE: 4.09515; 2.04656
ADC TWO: 4.09590; 2.04690
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User Notes: