

Laser Driver Control Board Up to 10 Amps CW

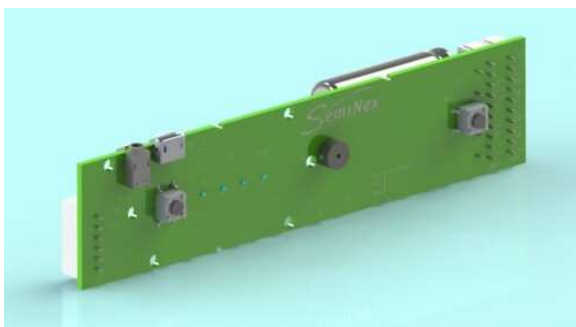
SemiNex offers a miniature laser diode driver with integrated microprocessor controls. C# programming capable and pre-programmed for most common functions. Two buttons and four LED indicator lights available as the user interface. Controls are rugged, low-cost, engineered for both professional and home use. Evaluation kits are ready for immediate delivery. Contact SemiNex for additional details or to discuss your specific application requirements.

Key Features

- High output current
- High dynamic power range
- High efficiency
- Fully programmable
- Two integrated control buttons
- Four programmable LED lights
- Five trigger / interlock options
 - Mechanical / Pressure
 - Roller input
 - Capacitive Sensor
 - Button input
- Programmable sound effects
- Dual-charging via USB or wall-plug
- Customized programming available

Applications

- Home Laser Applications
- General Practitioner Applications
- Military / Aerospace Field Use



	Min	Max	Units
General			
Computer interface	USB 2.0 Full speed (Type micro-B) CNT-HH1-8		
Program interface	C# currently, Window application capable		
Dimensions	20 x 132 x 30 mm		
Operating Temperature	0	70	C
Storage Temperature	0	70	C
Current draw while idle	<10 mA		
Current draw while off	<2 mA		
Power on wait time	1 sec		
Li+ Battery Charging			
Wall plug interface	115vAc 60Hz	120vAc 50Hz	VAC
Voltage range	5	12	VDC
Current limit (A)	0.1	1.2	A

	Min	Max	Units
CW Operation			
Laser Current			
Range	0	10,000	mA
Resolution	48		mA
Accuracy	200		+/- mA
Noise/Ripple		100	uA
Compliance Voltage	3.4	4.3	V
Laser Voltage			
Range	1.5	2.5	V

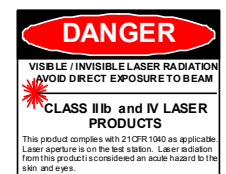
	Min	Max	Units
QCW Operation			
Frequency			
Range (Hz)	2	250	Hz
Resolution (Hz)	5		Hz
Accuracy (Hz)	5		Hz
Rise/Fall Time (usec)	120		usec @ 8A
Overshoot (%)	3.5		%
Zero current	0		% of set
Gating/Burst Mode			
Range	50	2000	msec
Resolution	50		msec
maximum number repetitions	50		

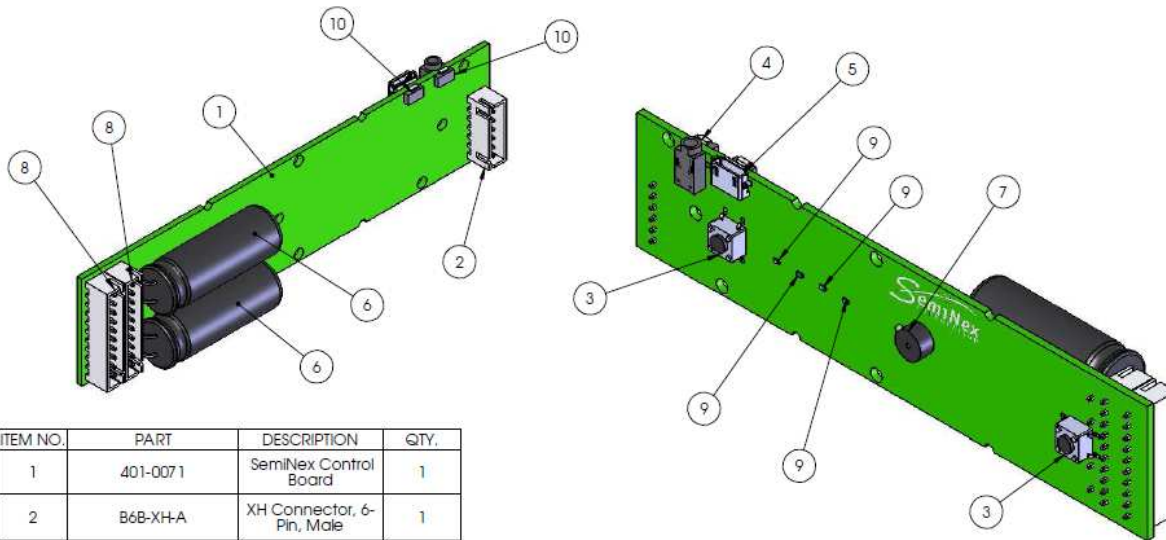
Programming		
Stock Program Modes / Parameters		
Current Level - High	0 to 10	A
Current Level - Medium	0 to 10	A
Current Level - Low	0 to 10	A
Burst Pulse Width	5 to 5000	ms
Burst Pulse Frequency	1 to 250	Hz
Number of Pulses per Burst	1 to 1000	
Auto-Delay Between Burst Cycles	1 to 1000	ms
Number of Cycles per Trigger	1 to 1000	
Power-On Sound	Programmable	
Laser-Firing Sound	Programmable	
Power-Off Sound	Programmable	
Low Battery Sound	Programmable	

Part Numbers	
Control Board	CNT-HH1-8
Battery	BTY-2600-8
Programming Cable	CNT-CBL-8
Wall-Plug Charger	CNT-CGR-8

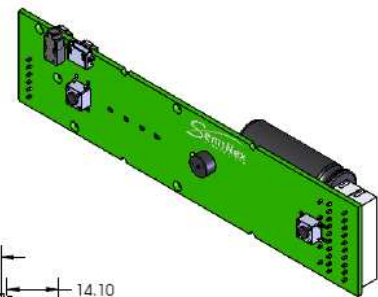
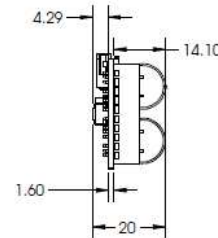
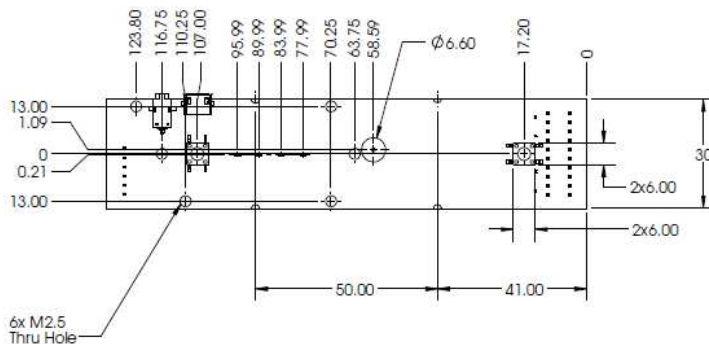
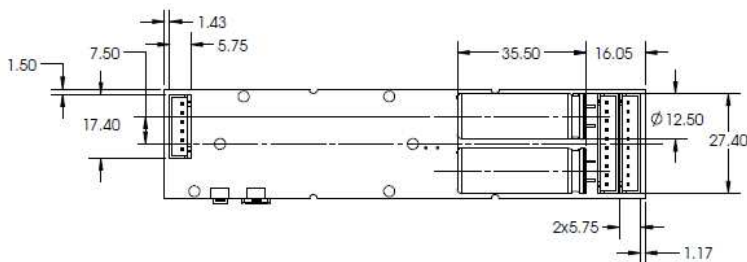
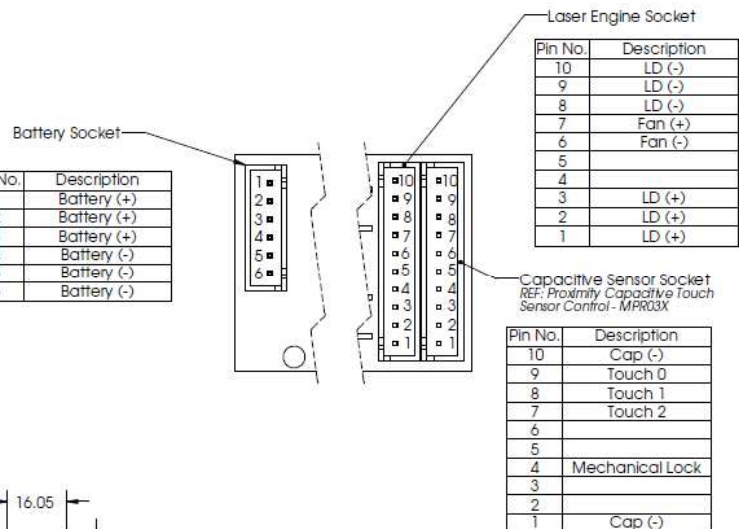
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ITEM NO.	PART	DESCRIPTION	QTY.
1	401-0071	SemiNex Control Board	1
2	B6B-XH-A	XH Connector, 6-Pin, Male	1
3	FSM2JSMA	Tactile Switch, Surface Mount	2
4	PJ-040-SMT	Surface Mount Power Jack	1
5	1981584-1	Micro USB Receptacle, Std Type AB	1
6	TPL-22/12X35F	Electric Double Layer Capacitor	2
7	CC-0601	Magnetic Buzzer	1
8	B10B-XH-A	XH Connector, 10-Pin, Male	2
9	LNJ814W83RA	Light-Emitting Diode	4
10	KMS223G/GP	Microminiature SMT Side Actuated Switch	2



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