

Trotter Controls, Inc. FORT WORTH, TEXAS	PRODUCT DATASHEET	NUMBER DS-0012	REVISION
		MODEL 5990-0009	
TITLE DATASHEET – 5990-0009 PCB (MicroChip 16F876A)	BY LKA	CHK'D VT	SERIAL
	DATE 7/7/2009	PAGE 1	OF 2

REVISIONS :

None

PURPOSE :

This datasheet provides general specifications for the 5990-0009 PIC Micro controller and Power supply PCB.

SUMMARY :

This PCB is a programmable micro controller with 2 independent DC to DC converters, on board regulation, and optically isolated I/O.

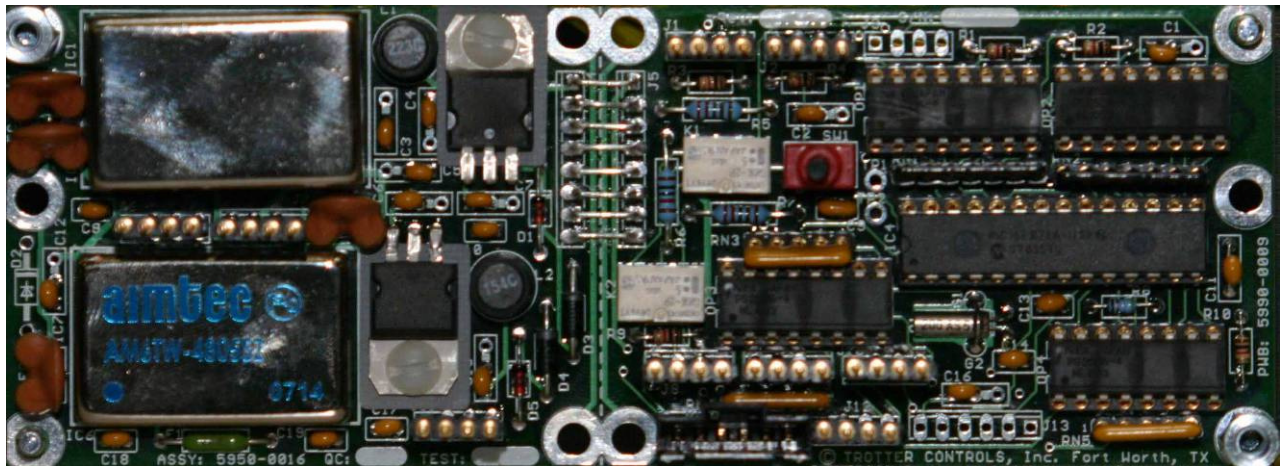


Figure 1 ~ DC/DC converter & power supply (left) shown with the 16F876A microcontroller board (right).

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FEATURES :

PCB

- Small size, 2.1 by 5.75 inch
- Controller and supply can be split into separate PCB's
- Simple 1:1 jumpers for 1 piece operation
- 4 layer design with internal busses and ground shields
- I/O points on standard .1 inch header
- 10, 6-32 mounting pads for flexible mounting options

Controller board

- Based on popular MICROCHIP PIC16F876A
- PIC microcontroller and Opto-isolators are socketed for easy replacement
- 8 optically isolated inputs
- 5 optically isolated Outputs
- 2 relay outputs
- 1 PWM/Analog out
- 1 PWM out
- 2 Analog inputs
- 2 non-isolated I/O
- On board crystal oscillator
- On board reset button
- On board programming port

Power supply board

- Single supply source with fuse.
- 2 independent, output isolated DC to DC converters with 4:1 input voltage range (18 ~ 72V standard).
- DC to DC converters are based ON Aimtec AM6T series.
- 6W of 5V power(1.2 Amp)for controller and external I/O
- 6W of 7.2V power(.83 amp)for other I/O or devices
- 1, TO220 based isolated regulator for auxillary voltage regulation channel
- Full EMI/RF filtering on input and output