

<b>Trotter Controls, Inc.</b> <b>FORT WORTH, TEXAS</b>	<b>PRODUCT</b> <b>DATASHEET</b>	NUMBER <b>DS-0011</b>	REVISION
		MODEL 5990-0007	
TITLE <b>DATASHEET – 5990-0007 PCB</b> (Microchip MCP23016)	BY LKA	CHK'D VT	SERIAL
	DATE 7/7/2009		PAGE 1
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**REVISIONS:**

None

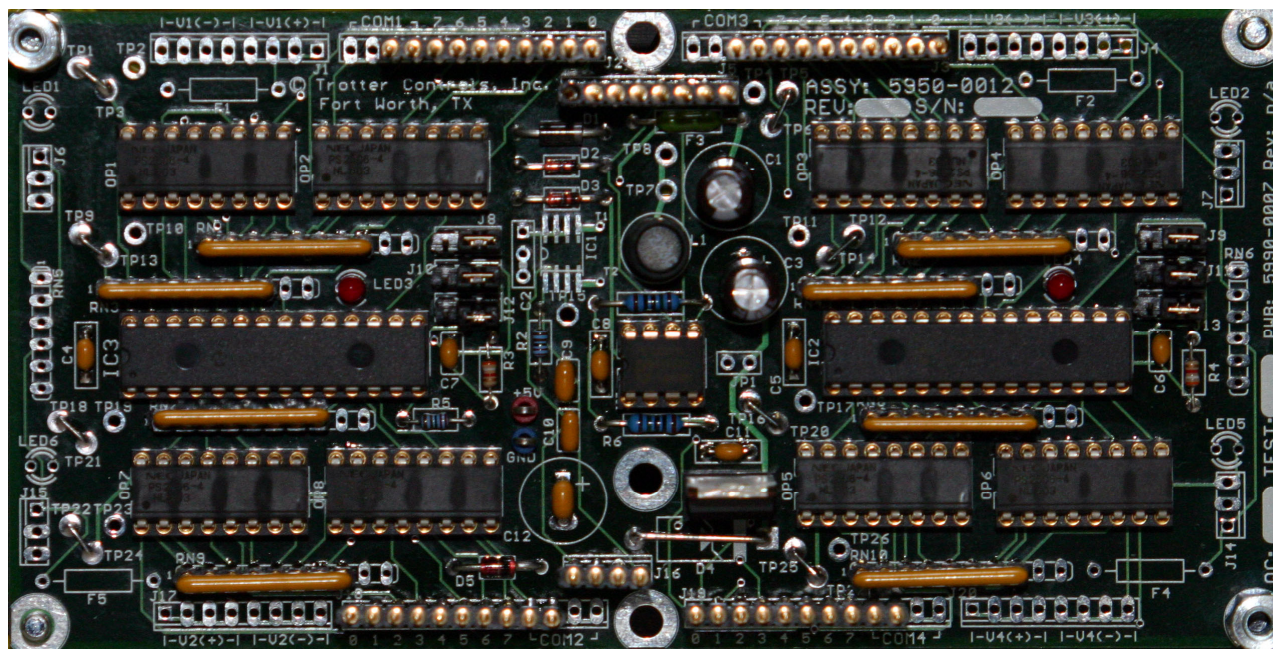
**PURPOSE:**

This datasheet provides general specifications for the 5990-0007 I2C Input Output PCB

**SUMMARY:**

This PCB is 32 Digital Input/Output expansion module that communicates via I2C bus. The module has on board optical isolation for the I2C bus as well as optical isolation between field I/O and the I2C port expansion IC's.

This product is a very robust industrial quality I/O solution for distributed I2C applications.



**Figure 1 ~ Isolated 32 channel I2C I/O expansion board.**

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**FEATURES :**

- 32 digital I/O points configurable in 8 point blocks as ether input or output.
- Each 16 points configurable with Address jumpers allowing 8 different address.
- Based on Microchip MCP23016 I2C I/O expander IC.
- Industry standard I2C communications.
- On board I2C Test pads
- On board optical isolation to TTL level communications conversion.
- Optically isolated I2C connector
- Non-isolated TTL I2C connector
- Power via external source if needed.
- On board fused power supply and regulation.
- 4 independent power busses individually fused and indicated.
- 6-32 mounting pads (7)