

I2C2 BOARD VERSION 16 JAN 2012

CONNECT TO MASTER I2C BUS

CONNECT TO REMOTE I2C BUS

8 MA REFERENCE

0.025" SQUARE
PIN HEADER

SOIC-8 PACKAGE

ADD JUMPER TO LOAD REMOTE BUS WITH 8 MA REFERENCE

I2C ACTIVE TERMINATOR
PCA9600
MAX BUS LENGTH 30 FT
SOIC-8 PACKAGE

INSTRUMENTATION AMPLIFIER

LOW CURRENT, LOW DROPOUT REGULATOR

UREF BUFFER

GAIN OF 21

12 BIT A/D + I2C INTERFACE

$$V_{OUT} = (I_{REMOTE} \times 21) + 0.8 \text{ V}$$

V_{OUT} MAX LOAD IS 5K OHMS

45J10 MAX A/D INPUT IS 3.6 V

45J10 MAX SOURCE IMPEDANCE IS 2.5K OHMS

TO 45J10 BOARD
NOTE: PINS 1&2, 3&4, 5&6, 7&8, 9&10
ARE CONNECTED TOGETHER ON 45J10 BOARD

45J10 BOARD SUPPLIES +5V TO I2C BUS

