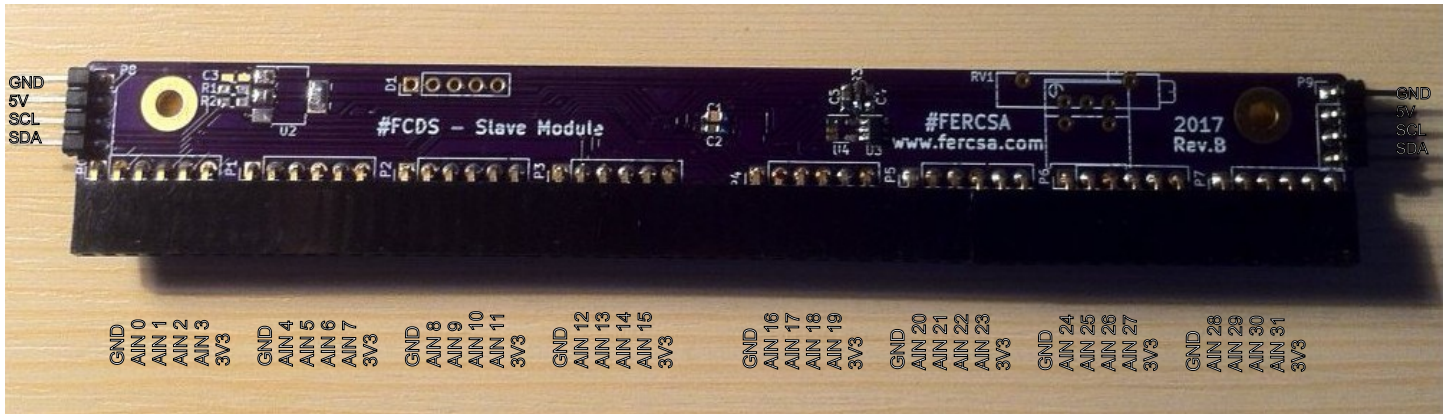


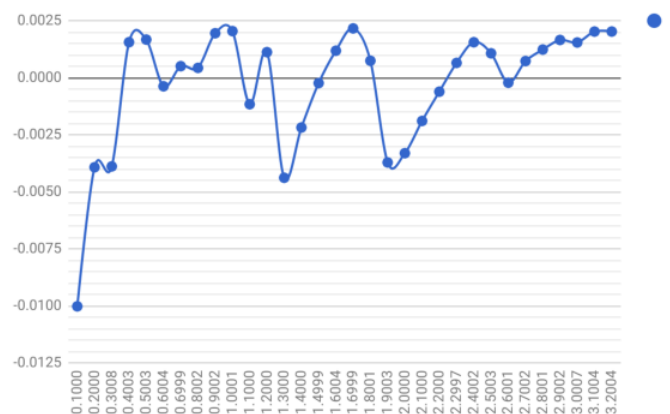
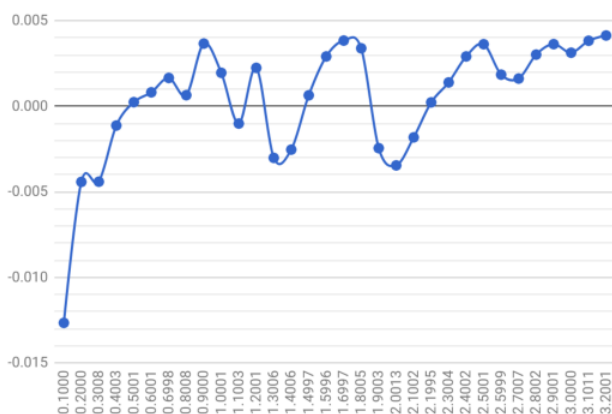
FERCSA – 32 channel ADC w/I2C



ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Typical	Units
5V	Voltage supply input	5	V
AIN(n)	Analog input voltage	0-3.3	V
3V3	Voltage supply output	3.3	V
SCL	I2C clock line	3.3	V
SDA	I2C data line	3.3	V
-	I2C bus speed	100	Kbits/s
R1, R2	I2C pull-up resistors (optional)	1.7	kOhm
J10	Vref output voltage	3.3	V
-	ADC bitrate	12(11 effective)	bit
-	ADC sampling rate	~8000	SPS
-	ADC input impedance	~2.2	kOhm

ANALOG INPUT LINEARITY (based on two different channel)



CODE EXAMPLES

- Available for Arduino and Linux C.
- Please visit https://github.com/FERCSA/FCDS/tree/master/SM_demo