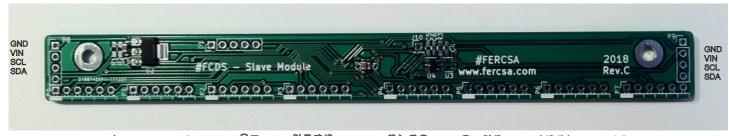
FERCSA - 32 channel ADC w/I2C



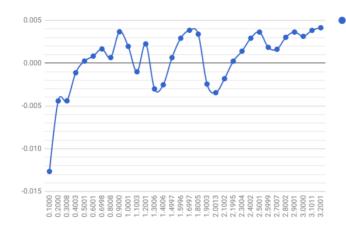
GND
ANN 2
ANN 3
ANN 3
ANN 3
ANN 5
ANN 5
ANN 6
ANN 6
ANN 7
VOUT
VOUT
VOUT
VOUT
VOUT

GND
ANN 16
ANN 16
ANN 16
ANN 17
ANN 22
ANN 23
ANN 23
ANN 24
ANN 25
ANN 26
ANN 26
ANN 26
ANN 30

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Typical (for 3.3V variant)	Typical (for 5.0V variant)	Units
VIN	Voltage supply input	5	7 (max.12)	V
AIN(n)	Analog input voltage	0 – 3.3	0 – 5.0	V
VOUT	Voltage supply output	3.3	5.0	V
SCL	I2C clock line	3.3	3.3 – 5.0 (based on pull-up)	V
SDA	I2C data line	3.3	3.3 – 5.0 (based on pull-up)	V
-	I2C bus speed	100	100	Kbits/s
R1, R2	I2C pull-up resistors (optional)	1.7	1.7	kOhm
J10	Vref output voltage	3.3	5.0	V
-	ADC bitrate	12 (11 effective)	12 (11 effective)	bit
-	ADC sampling rate	~8000	~8000	SPS
-	ADC input impedance	~2.2	~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