

OneUI Application

MENU Sensing Solutions EVM GUI v1.10.0

Measurement Settings

Sampling Rate
☐ 100 Samples/second
☐ 200 Samples/second
☒ 400 Samples/second

Single Channel Measurements
 Measure Channel:

Continuous Multi-Channel Measurements
☒ Enable continuous multi-channel measurements

Channel Measurement Settings

Measurement	Enable	Input Channels		CAPDAC		Calibration		Measured Sensor Data			
		CHA	CHB	Code	Capacitance (pF)	Offset Capacitance (pF)	Gain	Register Code	Two's Complement Value	Saturated	Capacitance (pF)
1	<input checked="" type="checkbox"/>	CIN1	DISABLED	0	0.000	0	1	314173	314173	<input checked="" type="checkbox"/>	0.599237
2	<input checked="" type="checkbox"/>	CIN2	DISABLED	0	0.000	0	1	218975	218975	<input checked="" type="checkbox"/>	0.417662
3	<input checked="" type="checkbox"/>	CIN3	CAPDAC	17	53.125	0	1	4820	4820	<input checked="" type="checkbox"/>	53.134193
4	<input checked="" type="checkbox"/>	CIN4	DISABLED	0	0.000	0	1	317562	317562	<input checked="" type="checkbox"/>	0.605701

Configuration Page Settings

Update measurement registers rate: ms

Note: Use Data Streaming page for high speed data logging and visualization

Connected | SSP EVM connected - FDC1004 | **TEXAS INSTRUMENTS**

2:18 PM 2019-05-14

Parallel Plate 1 to Pin J4.7 (CIN3)
 Parallel Plate 2 to Pin J4.10 (GND)
 No shield on any plate

OneUI Application

MENU Sensing Solutions EVM GUI v1.10.0

Measurement Settings

Sampling Rate
☐ 100 Samples/second
☐ 200 Samples/second
☒ 400 Samples/second

Single Channel Measurements
 Measure Channel:

Continuous Multi-Channel Measurements
☒ Enable continuous multi-channel measurements

Channel Measurement Settings

Measurement	Enable	Input Channels		CAPDAC		Calibration		Measured Sensor Data			
		CHA	CHB	Code	Capacitance (pF)	Offset Capacitance (pF)	Gain	Register Code	Two's Complement Value	Saturated	Capacitance (pF)
1	<input checked="" type="checkbox"/>	CIN1	DISABLED	0	0.000	0	1	339955	339955	<input type="radio"/>	0.648413
2	<input checked="" type="checkbox"/>	CIN2	DISABLED	0	0.000	0	1	8388607	8388607	<input checked="" type="radio"/>	15.999998
3	<input checked="" type="checkbox"/>	CIN3	CIN2	0	0.000	0	1	1581984	1581984	<input type="radio"/>	3.017395
4	<input checked="" type="checkbox"/>	CIN4	DISABLED	0	0.000	0	1	309496	309496	<input type="radio"/>	0.590317

Configuration Page Settings

Update measurement registers rate: ms

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Connected | SSP EVM connected - FDC1004 | **TEXAS INSTRUMENTS**

Windows Taskbar: 2:06 PM 2019-05-14

Parallel Plate 1 to Pin J4.7 (CIN3)
 Parallel Plate 2 to Pin J4.4 (CIN2)
 No shield on any plate

OneUI Application

MENU Sensing Solutions EVM GUI v1.10.0

Measurement Settings

Sampling Rate: ☐ 100 Samples/second ☐ 200 Samples/second ☒ 400 Samples/second

Single Channel Measurements: Measure Channel:

Continuous Multi-Channel Measurements: ☒ Enable continuous multi-channel measurements

Channel Measurement Settings

Measurement	Enable	Input Channels		CAPDAC		Calibration		Measured Sensor Data			
		CHA	CHB	Code	Capacitance (pF)	Offset Capacitance (pF)	Gain	Register Code	Two's Complement Value	Saturated	Capacitance (pF)
1	<input checked="" type="checkbox"/>	CIN1	DISABLED	0	0.000	0	1	347601	347601	<input type="checkbox"/>	0.662996
2	<input checked="" type="checkbox"/>	CIN2	CAPDAC	6	18.750	-1	1	16668822	-108394	<input type="checkbox"/>	18.543255
3	<input checked="" type="checkbox"/>	CIN3	CIN2	0	0.000	0	1	1777520	1777520	<input type="checkbox"/>	3.390350
4	<input checked="" type="checkbox"/>	CIN4	DISABLED	0	0.000	0	1	312258	312258	<input type="checkbox"/>	0.595585

Configuration Page Settings

Update measurement registers rate: ms

Note: Use Data Streaming page for high speed data logging and visualization

Connected | SSP EVM connected - FDC1004

TEXAS INSTRUMENTS

2:08 PM 2019-05-14

Parallel Plate 1 to Pin J4.7 (CIN3)
 Parallel Plate 2 to Pin J4.4 (CIN2)
 No shield on any plate

OneUI Application

MENU Sensing Solutions EVM GUI v1.10.0

Measurement Settings

Sampling Rate
☐ 100 Samples/second
☐ 200 Samples/second
☒ 400 Samples/second

Single Channel Measurements
 Measure Channel:

Continuous Multi-Channel Measurements
☒ Enable continuous multi-channel measurements

Channel Measurement Settings

Measurement	Enable	Input Channels		CAPDAC		Calibration		Measured Sensor Data			
		CHA	CHB	Code	Capacitance (pF)	Offset Capacitance (pF)	Gain	Register Code	Two's Complement Value	Saturated	Capacitance (pF)
1	<input checked="" type="checkbox"/>	CIN1	DISABLED	0	0.000	0	1	347561	347561	<input checked="" type="radio"/>	0.662920
2	<input checked="" type="checkbox"/>	CIN2	CIN3	0	0.000	0	1	15173370	-1603846	<input checked="" type="radio"/>	-3.059093
3	<input checked="" type="checkbox"/>	CIN3	CIN2	0	0.000	0	1	1650970	1650970	<input checked="" type="radio"/>	3.148975
4	<input checked="" type="checkbox"/>	CIN4	DISABLED	0	0.000	0	1	307984	307984	<input checked="" type="radio"/>	0.587433

Configuration Page Settings

Update measurement registers rate: ms

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Connected | SSP EVM connected - FDC1004

TEXAS INSTRUMENTS

Windows Taskbar: Ready, 2:06 PM, 2019-05-14

Parallel Plate 1 to Pin J4.7 (CIN3)
 Parallel Plate 2 to Pin J4.4 (CIN2)
 No shield on any plate