

GREENCHIP

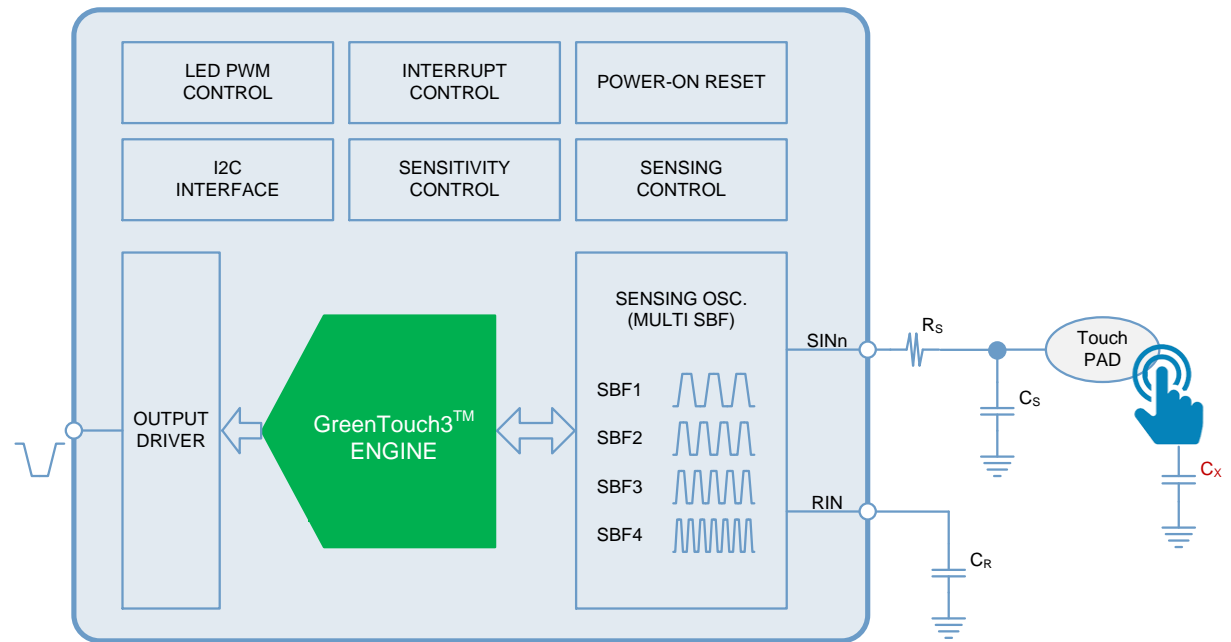
The new GreenTouch3™ Family can do capacitance sensing with each of channel under above Embedded GreenTouch3™ Engine operation.

Key Features

- Analog compensation circuit
- Embedded digital noise filter
- Intelligent sensitivity calibration
- Embedded CS, EFT enhancer core

GreenTouch3™ Family

Smart Calibration Capacitive Touch Sensor Series



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	GT3LS01L	GT301L	GT304L	GT308L	GT316L
Channel	1-ch	1-ch	4-ch	8-ch	16-ch
1:1 Direct Output	O	O	O	O	X
Output Mode	Level/PWM	Level/Toggle	Level	Level	-
I2C Interface	X	X	O	O	O
Interrupt Output	X	X	O	O	O
Interrupt Mode	-	-	Pulse	Pulse/Level	Pulse/Level
LED Driver Output	X	X	O	O	O
LED Driver Step	-	-	32 Steps	16 Steps	32 Steps
External RST	X	X	X	O	O
Internal POR	O	O	O	O	O
Sensitivity Control by CTRL Pin	O	O	O	O	X
Sensitivity Control Step	2 Steps	2 Steps	64 Steps	64 Steps	64 Steps
LP (Low Power)	X	O	X	X	X
Current of Standby Mode	75uA (@3.0V)	30uA (@3.0V)	140uA (@3.3V)	140uA (@3.3V)	15uA (@3.0V, RSP Time ≈ 700ms)
Current of LP - Standby Mode	-	8.5uA (@3.0V)	-	-	-
Supply Voltage	@1.8V~5.5V	@1.8V~5.5V	@2.5V~5.5V	@2.5V~5.5V	@1.8V~5.5V
Multi Touch	-	-	O	O	O
Single Touch	-	-	O	O	O
Polarity Control of Output Pins	X	X	O	O	O (only PWMOUT1~4)
Auto Calibration	O	O	O	O	O
Auto Calibration Step	-	-	16 Steps	16 Steps	16 Steps
Package Type	SOT23-6L	SOT23-6L	QFN-16L SOP-14L	QFN-24L, 4X4 SSOP-24L	QFN-28L, 4X4 TSSOP-30L

Block Diagram

