

GestureID	@0x01
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	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	GestureID							
	Bit	Item	Description					
	[7:0]	GestureID	Gesture ID 0x00: No gesture 0x01: Slide up 0x02: Slide down 0x03: Slide left 0x04: Slide right 0x05: Single click 0x0B: Double click 0x0C: Long press					

FingerNum @0x02

FingerNum	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	FingerNum							
	Bit	Item	Description					
	[7:0]	FingerNum	Finger Numbers 0: no finger 1: one finger					

XposH @0x03

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.					Xpos[11:8]		
Bit [3:0]	Item XPos	Description High 4 bits of the X coordinate					

XposL @0x04

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	Xpos[7:0]							
	Bit	Item	Description					
	[7:0]	XPos	Low 8 bits of the X coordinate					

YposH @0x05

Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.					Ypos[11:8]		

Bit	Item	Description
[3:0]	YPos	High 4 bits of the Y coordinate

YposL @0x06

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	Ypos[7:0]							
	Bit	Item	Description					
	[7:0]	YPos	Low 8 bits of the Y coordinate					

BPC0H @0xB0

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	BPC0[15:8]							

Bit	Item	Description
[7:0]	BPC0H	High 8 bits of the BPC0 value

BPC0L @0xB1

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	BPC0[7:0]							

Bit	Item	Description
[7:0]	BPC0L	Low 8 bits of the BPC0 value

BPC1H @0xB2

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	BPC1[15:8]							

Bit	Item	Description
[7:0]	BPC1H	High 8 bits of the BPC1 value

BPC1L @0xB3

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	BPC1[7:0]							

Bit	Item	Description
[7:0]	BPC1L	Low 8 bits of the BPC1 value

ChipID @0xA7

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	ChipID							

Bit	Item	Description
[7:0]	ChipID	Chip ID

ProjID @0xA8

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	ProjID							

Bit	Item	Description
[7:0]	ProjID	Project ID

FwVersion @0xA9

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	FwVersion							

Bit	Item	Description
[7:0]	FwVersion	Software Version

MotionMask @0xEC

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	EnConLR EnConUD EnDClick							

Bit	Item	Description
[2]	EnConLR	Enable Continuous Left-Right (LR) Scrolling Action
[1]	EnConUD	Enable Continuous Up-Down (UD) Scrolling Action
[0]	EnDClick	Enable Double Click Action

IrqPluseWidth @0xED

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	IrqPluseWidth							
	Bit	Item	Description					
	[7:0]	IrqPluseWidth	Interrupt low-pluse output width Unit: 0.1ms, Range: 1~200, Default: 10					

NorScanPer @0xEE

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	NorScanPer							
	Bit	Item	Description					
	[7:0]	NorScanPer	Normal quick-scanning Period This value will affect LpAutoWakeTime and AutoSleepTime. Unit: 10ms, Range: 1~30, Default: 1					

MotionSlAngle @0xEF

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	MotionSlAngle							
	Bit	Item	Description					
	[7:0]	MotionSlAngle	Gesture detection sliding area angle control. Angle=tan(c)*10 where c is the angle with respect to the positive x-axis.					

LpScanRaw1H @0xF0

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanRaw1H							
	Bit	Item	Description					
	[7:0]	LpScanRaw1H	High 8 bits of the reference value for low-power scanning channel 1					

LpScanRaw1L @0xF1

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanRaw1L							
	Bit	Item	Description					
	[7:0]	LpScanRaw1L	Low 8 bits of the reference value for low-power scanning channel 1					

LpScanRaw2H @0xF2

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanRaw2H							
	Bit	Item	Description					
	[7:0]	LpScanRaw2H	High 8 bits of the reference value for low-power scanning channel 2					

LpScanRaw2L @0xF3

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanRaw2L							
	Bit	Item	Description					
	[7:0]	LpScanRaw2L	Low 8 bits of the reference value for low-power scanning channel 2					

LpAutoWakeTime @0xF4

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpAutoWakeTime							
	Bit	Item	Description					
	[7:0]	LpAutoWakeTime	Automatic recalibration period during low power mode. Unit: 1 minute, Range: 1~5, Default:5					

LpScanTH @0xF5

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanTH							
	Bit	Item	Description					
	[7:0]	LpScanTH	Low power scanning wake-up threshold. The smaller it is, the more sensitive it is. Range: 1~255, Default: 48					

LpScanWin @0xF6

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanWin							
	Bit	Item	Description					
	[7:0]	LpScanWin	Low-power scanning measurement range. The greater it is, the more sensitive and the more power consumption it is. Range: 0, 1, 2, 3; Default: 3					

LpScanFreq @0xF7

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanFreq							
	Bit	Item	Description					
	[7:0]	LpScanFreq	Low-power scanning frequency, the smaller it is, the more sensitive it is. Range: 1~255; Default: 7					

LpScanIdac @0xF8

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LpScanIdac							
	Bit	Item	Description					
	[7:0]	LpScanIdac	Low-power scanning current. The smaller it is, the more sensitive it is. Range: 1~255					

AutoSleepTime @0xF9

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	AutoSleepTime							
	Bit	Item	Description					
	[7:0]	AutoSleepTime	Automatically enter low-power mode if there is no touch in x seconds. Unit: 1s, Default: 2s.					

IrqCtl @0xFA

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	EnTest	EnTouch	EnChange	OnceWLP				
	Bit	Item	Description					
	[7]	EnTest	Interrupt pin test, automatically generates low pulses periodically after being enabled					
	[6]	EnTouch	Generates low pulses when the touch is detected					

[5]	EnChange	Generates low pulses when touch is changed.
[4]	EnMotion	Generates low pulses when gesture is detected.
[0]	OnceWLP	Only generates one low pulse when log press gesture

AutoReset @0xFB

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	DebounceTime							
	Bit	Item	Description					
	[7:0]	DebounceTime	Automatically reset if there is touch but no valid gesture within x seconds. Unit: 1S, Disable: 0, Default:					

LongPresTime @0xFC

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	LongPresTime							
	Bit	Item	Description					
	[7:0]	LongPresTime	Auto reset after long press x seconds Unit: 1S, Disable: 0, Default: 10					

IOCtl @0xFD

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.						SOFT_RST	IIC_OD	Enlv8
	Bit	Item	Description					
	[2]	SOFT_RST	The main controller achieves touch soft reset functionality by pulling down the IRQ pin. 0: Disable soft reset 1: Enable soft reset					
	[1]	IIC_OD	IIC pin driver mode, pull up resistor by default. 0: pull up resistor 1: OD					
	[0]	Enlv8	IIC and IRQ pin level selection, VDD level by default. 0: VDD 1: 1.8V					

DisAutoSleep @0xFE

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Desc.	DisAutoSleep							
	Bit	Item	Description					
	[7:0]	DisAutoSleep	0 by default, enable automatic entry into low-power mode When non-zero, disable automatic entry into low-power mode					