Silicon Integrated System Crop.

UART Format Ver. 1.02

General Format for serial port report

History

Date	Ver.	Author	Note
2016/12/07	1.00	Istas	1. Initial Version.
2016/12/22	1.01	Yeman	1. Fixed the note. 2. Fixed incorrect numbers.
2016/12/27	1.02	Yeman	1. Modify touch resolution from 4096x4096 to 32768x32768. 2. Add first page.

Touch Format with Serial port.

1、 Serial port setup::

　　Baud rate ： 115200

　　Data：8 bits

　　Stop：1 bit

　　Parity：None

2、 　Touch Report 32768x32768.

3、 　No touch event while no touch.

4、 　Touch point format that less than 7 points：

Byte	Content	Note
0	0x02	Header(LSB)
1	0x05	Header(MSB)
2	Data Length (LSB)	Fixed to 43 (0x2B)
3	Data Length (MSB)	
4	0x02	Reserved
6*n+5	Status	0x02：Touch Down 0x03：Move 0x02：Touch Up 0x00：Non-Touch
6*n+6	ID	ID 0~5
6*n+7	Coordinate X (LSB)	Coordinate X
6*n+8	Coordinate X (MSB)	0 ~ 32767
6*n+9	Coordinate Y (LSB)	Coordinate Y
6*n+10	Coordinate Y (MSB)	0 ~ 32767
41	Touch Count	
42	Check Sum	Sum of [0:41] (LSB)

Table1. First touch packet format.

5、 　Send more than one touch packets for more than 6 touch points.

　　First packet will record total touch points at the "Touch Count" byte and 0x00 for others. Use the "ID" to denote the different touch points.

First data packet will be followed the "Table1" and others will be followed the "Table2" till all points be sent.

Byte	Content	Note
0	0x02	Header(LSB)
1	0x05	Header(MSB)
2	Data Length (LSB)	Fixed to 43 (0x2B)
3	Data Length (MSB)	
4	0x02	Reserved
6*n+5	Status	0x02：Touch Down 0x03：Move 0x02：Touch Up 0x00：Non-Touch
6*n+6	ID	ID 6 ~
6*n+7	Coordinate X (LSB)	Coordinate X
6*n+8	Coordinate X (MSB)	0 ~ 32767
6*n+9	Coordinate Y (LSB)	Coordinate Y
6*n+10	Coordinate Y (MSB)	0 ~ 32767
41	0x00	
42	Check Sum	Sum of [0:41] (LSB)

Table2. Touch packet after the first one.

Related Parameters:
1. UartEn: Enable pin for Serial port report. (Disabled in default)
2. UartRate: Baud rate of serial port.
    I. It can be set as "115200", "38400" and "9600" only!
       (115200 in default)