Software Release Note (SRN)

Rev: A2
09 Oct 2013

Project : ISLU_SNSR

SW Release version#: 1.1.2.1
Released by: Sanoj

Email: sanoj.kumar@vvdntech.com

VVDN Contact:

Bhupender Saharan

+1 408 807 3951

***Email*:** bhupi@vvdntech.com

SRN Revision History:

Date	Rev No.	Description	By
07 Oct 2013	A1	Release note for software version 1.0.2.1	Sanoj
09 Oct 2013	A2	Release note for software version 1.1.2.1	Sanoj

Table of Contents

1 RELEASE 1.1.2.1

1.1 Introduction

This release contains the ALS (Ambient Light Sensor)/IR and Proximity sensor Driver package, Software design document, Application Programmers Guide, Android test application and Driver Integration Guide, and a precompiled kernel.

1.2 Driver integration steps

To integrate and use this driver on panda board android kernel, please refer following document:

S.NO	Description	Version	Date
1	ISLU_SNSR_DRIVER_INTEGRATION_GUDE_A1_ISL29028A.pdf	A1	07-10-2013

1.3 Features

Following are the features supported in this release:

1. The Android Test Application continuously reads Lux value from ALS sensor device and displays on screen.
2. The Test application is designed to read as well as write the configuration parameters. (Please Read the Application's Programmers Guide for Valid read write operations.)
3. 2 different ranges of ALS/IR values can be obtained for ALS as well as IR sensing.
    a. 125 Lux
    b. 2000 Lux

4. Configure the separate minimum and maximum interrupt thresholds for ALS sensor and PROX sensor.
5. ADC range
    a. 12 – bit for ALSIR
    b. 8 – bit for Proximity
6. Selectable Interrupt persistency (**1** / **4** / **8** / **16** cycles)
7. Configure the Proximity sleep time. following are the sleep time values

    1. 0.0 ms
    2. 12.5 ms
    3. 50.0 ms
    4. 75.0 ms
    5. 100.0 ms
    6. 200.0 ms
    7. 400.0 ms
    8. 800.0 ms

8. Driver supports both polling as well as interrupt mode functionality
9. Offline help on using the application.

1.4 Test report

1. Fixed some logical bugs found in testing
2. Optimized in terms of memory uses

All features supported in this release are tested and validated.

1.5 Known issues

None

2 RELEASE 1.0.2.1

2.1 Introduction

This release contains the ALS (Ambient Light Sensor)/IR and Proximity sensor Driver package, Software design document, Application Programmers Guide, Android test application and Driver Integration Guide, and a precompiled kernel.

2.2 Driver integration steps

To integrate and use this driver on panda board android kernel, please refer following document:

S.NO	Description	Version	Date
1	ISLU_SNSR_DRIVER_INTEGRATION_GUDE_A1_ISL29028A.pdf	A1	07-10-2013

2.3 Features

Following are the features supported in this release:

1. The Android Test Application continuously reads Lux value from ALS sensor device and displays on screen.
2. The Test application is designed to read as well as write the configuration parameters. (Please Read the Application's Programmers Guide for Valid read write operations.)
3. 2 different ranges of ALS/IR values can be obtained for ALS as well as IR sensing.
    a. 125 Lux
    b. 2000 Lux
4. Configure the separate minimum and maximum interrupt thresholds for ALS sensor and PROX sensor.
5. ADC range
    a. 12 – bit for ALSIR
    b. 8 – bit for Proximity
6. Selectable Interrupt persistency (**1** / **4** / **8** / **16** cycles)
7. Configure the Proximity sleep time. following are the sleep time values

    1. 0.0 ms
    2. 12.5 ms
    3. 50.0 ms
    4. 75.0 ms
    5. 100.0 ms
    6. 200.0 ms
    7. 400.0 ms
    8. 800.0 ms

8. Driver supports both polling as well as interrupt mode functionality
9. Offline help on using the application.

2.4 Test report

All features supported in this release are tested and validated.

2.5 Known issues

None