TIDA-00754
Backlight and Smart Lighting Control by Ambient Light and Noise-Immune Proximity Sensor Reference Design

Revision History

<table>
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<th>Revision</th>
<th>Notes</th>
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<td>E1</td>
<td>Initial Board Release</td>
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<td>E2</td>
<td>Replaced HDC1000 with HDC1010</td>
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Diagram:

- USB 5-V Input
- TLV1333 Linear Regulator
- MSP430FR5969 Microcontroller
- LCD
- EM Connector
- Capacitive Bezel Sensor
- FDC2212 Capacitance-to-Digital Sensor
- HDC1010 Humidity and Temperature Sensor
- OPT3001 Ambient Light Sensor
- LM3630A LCD Backlight Controller
USB Connection

USB ESD Protection

LCD Display

LCD Backlight & Driver

Engineer:

Drawn By:

File:

Version control disabled

Public Release

http://www.ti.com/support

TIDA-00754 Backlight Control and Proximity Sensing

Designed for:

Revised: 5/12/2016

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