## STEVAL-CBP005V1

Front panel demonstration board based on the STLED316S

## Features

- $16 \times 3 \mathrm{~mm}$ blue LEDs for status and function indication

■ $2 \times 5 \mathrm{~mm}$ BiColor LEDs

- 12 front panel function keys
- 1 reset button on rear
- Provision for mounting IR sensor and associated bias components
- 11-pin connector termination for easy interface to host
- All data and power lines and additional signals available on connector


## Description

The STEVAL-CBP005V1 demonstration board functions as a front panel solution for the HR21 set-top box (STB), and is designed to allow testing of the versatile LED controller/driver STLED316S.

The HR21 main board serves as the host (master), and the STEVAL-CBP005V1 demonstration board functions as a slave. The interface is an 11-pin connector cable, which provides all required device control signals, the 3.3 and 5 V supply, the reset and IR sensor data lines, and ground. The board also provides all necessary function switches as well as LEDs for function/status indication.

The STEVAL-CBP005V1 demonstration board must be connected to the host to function properly. Factory testing was completed using a test jig, which emulated the host.

Data Brief


STEVAL-CBP005V1

## 1 Board schematic

Figure 1. Schematic diagram


## 2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
| :---: | :---: | :--- |
| 24-Jun-2008 | 1 | Initial release. |

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