



## STEVAL-CBP003V1

Front panel LED controller and driver  
evaluation board based on the STLED316S

Data Brief

### Features

- 8-segment, 6-digit customized LED display
- 8-segment bar graph LED display
- 7 front panel keys
- 2 LEDs (green for power and red for interrupt)
- 1 potentiometer for adjusting the brightness of the display.
- 1 reset switch to reset the system
- Demo mode for making the system self-performing and user independent
- Embedded in-circuit programming capability



### Description

This evaluation board implements a front panel for the set top box and it is based on the LED driver/controller STLED316S and microcontroller ST7LITE39F2 as SPI master. The capabilities of ST's LED controller/driver STLED316S fit the market segment of front panel for HTiB (home theater in a box), Set top boxes, DVD readers and other similar applications that require a compact and integrated solution, keeping the total system cost as low as possible. When the board is connected to the power supply the system gets ready for any operation to perform. At the time of manufacturing an additional board has been connected to allow in-circuit programming of the microcontroller, but, in any case the front panel board can be used independently and alone.



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
10-Mar-2008	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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#### ➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

#### ➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

#### ➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

#### ➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)