STEVAL-CBP004V1

Front panel display demonstration board based on the STFPC311 and ST72264G2

Data Brief

Features

- 16-segment, 1-digit customized VFD for DVD recorders
- 12 front panel keys
- 3 LEDs (red for standby, blue for IR and green for mute)
- 1 IR sensor for remote control operation
- Buzzer for mute feature demonstration
- On-board real-time clock (RTC) to set the timer and alarm for standby
- Power supply connector for four power supplies (3.3 V, 12 V, -30 V and GND)
- Standby management for low power operation
- Auto wakeup from system standby
- Embedded in-circuit programming capability

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The system design focus is in the key areas of standby management feature for low power consumption. The system can operate using front panel keys or remote control

Description

This front panel demonstration board is based on the STFPC311 front panel controller and microcontroller ST72F264 as the SPI master. The basic idea is to develop a front panel for DVD recorders which is very close to the available solutions in the market while displaying the capabilities of ST's front panel controller/driver STFPC311 to fit the market segment of front panel of DVD players, DVD recorders, VCR, home theater systems with clock feature, HTiB (home theater in a box), personal video recorders (PVRs), set-top boxes and other applications that require a compact, integrated solution, keeping the system cost as low as possible.

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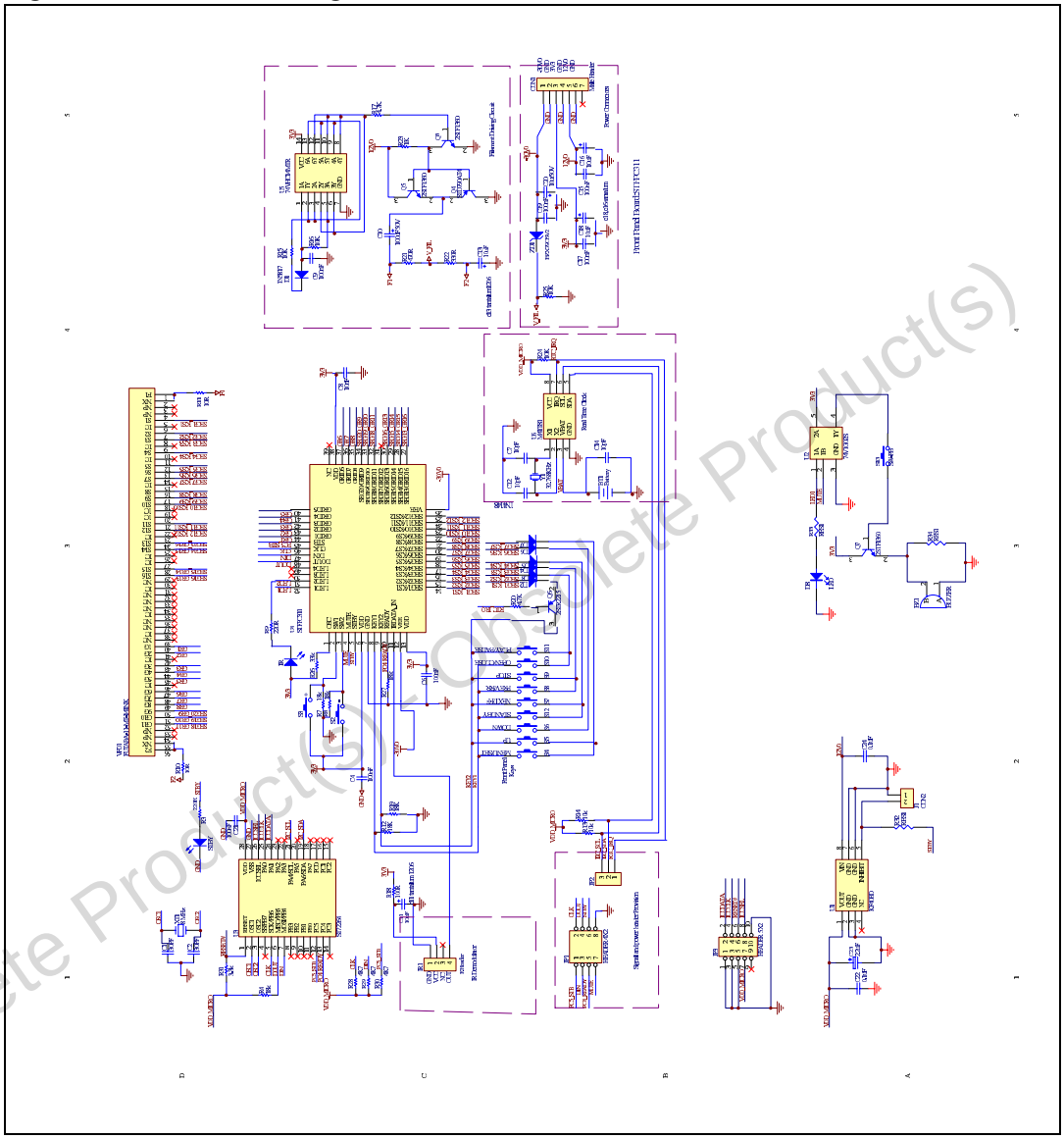
1 Board schematic

Figure 1. Schematic diagram



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2 Revision history

Table 1. Document revision history

Date	Revision	Changes
02-Sep-2008	1	Initial release.

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