



## STEVAL-IFV002V1

### STEVAL-IFV002V1 IPCAM extension board based on the STM32F107VC

Data brief

#### Features

- The IPCAM extension board, based on STM32, includes the following:
  - STEVAL-IFV002V1 board
  - CAMERA pepper board
  - object files are available for the firmware
- RoHS compliant

#### Description

The STEVAL-IFV002V1 demonstration board implements a camera extension board which is used to interface a CAMERA board to the STM3210C-EVAL demonstration board.

This extension board is built around STMicroelectronic's ARM with a Cortex-M3 core-based STM32F107VC microcontroller in a 100 pin package.

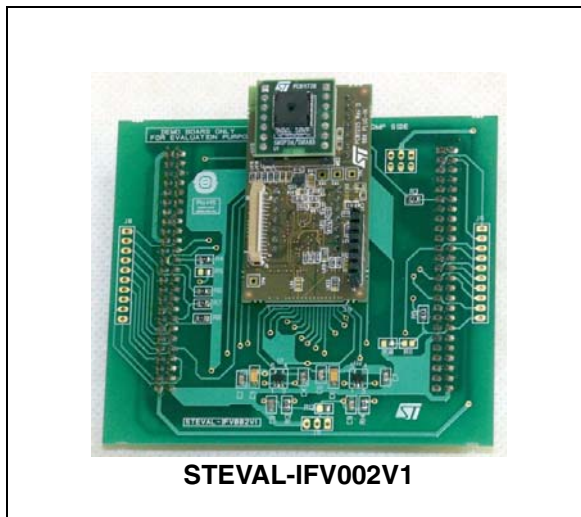
This extension board consists of a camera board connector, two female headers which fit on CN8 and CN9 of the EVAL demonstration board, and a power supply unit required for the camera unit.

The application works on the Web server implemented on the STM3210C-EVAL demonstration board.

The camera interface library is implemented on STM32 to capture the image from the camera. The board is interfaced with a CAMERA pepper board.

The camera sensor is mounted on this pepper board. To capture the image, commands are provided through an I2C interface. An Ethernet library is ported on the STM3210C-EVAL demonstration board to transfer the image through Ethernet.

DHCP client is also supported on the board to assign the IP address automatically.





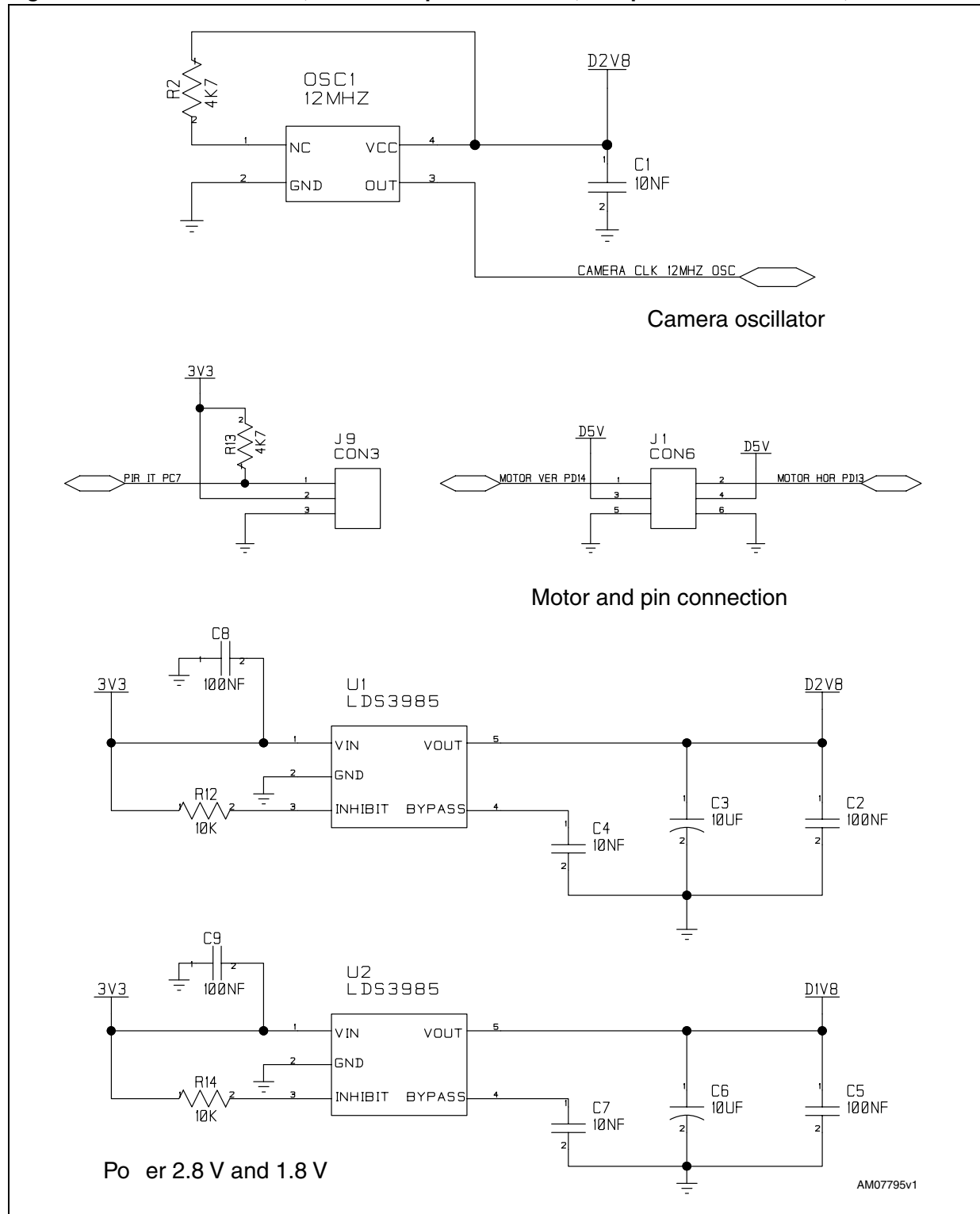
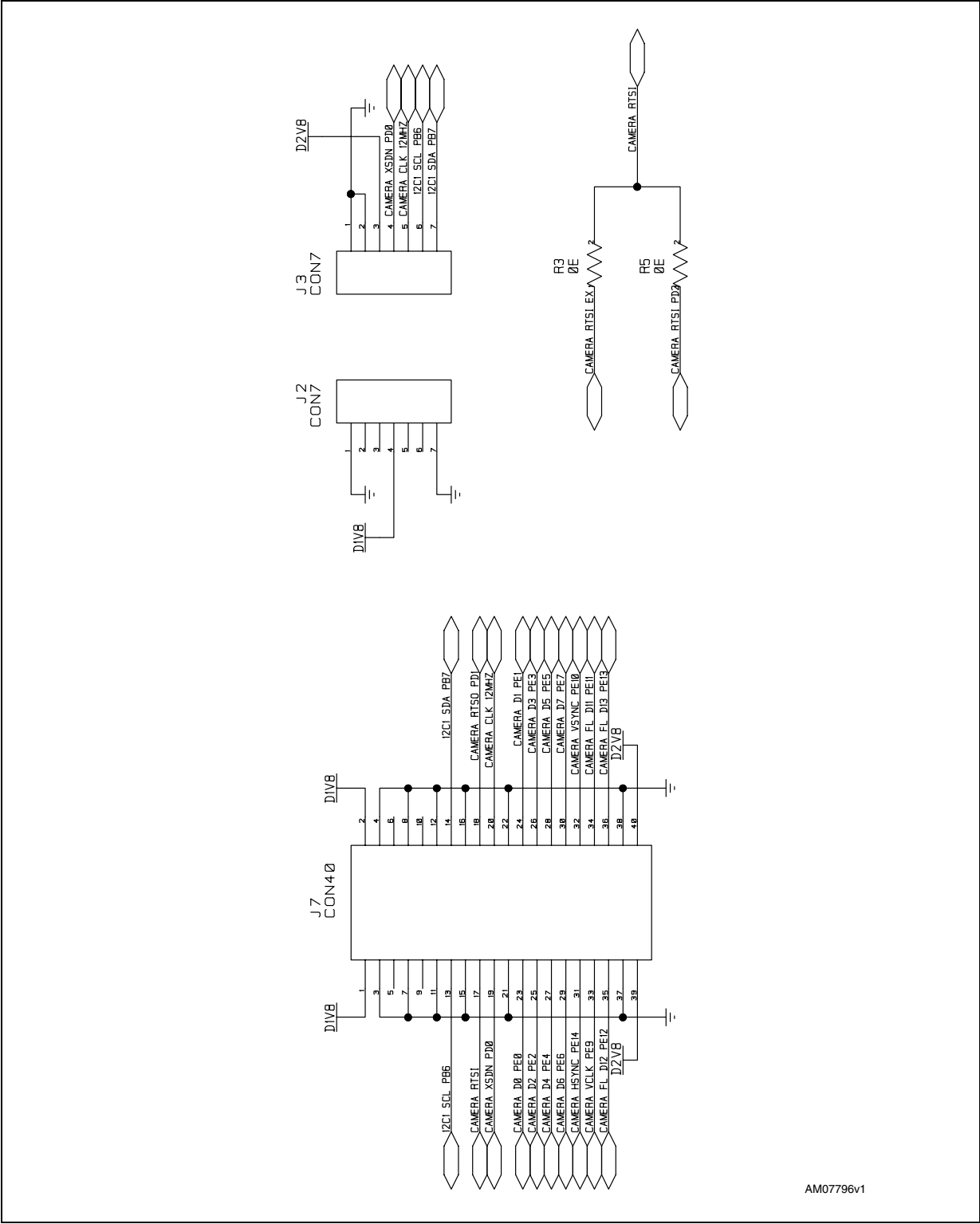
**Figure 2. Camera oscillator, motor and pin connection, and power 2.8 V and 1.8 V, schematics**

Figure 3. Camera board connector schematics



AM07796v1

## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
22-Sep-2010	1	Initial release.

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