

JControl/SmartDisplay Evaluation Board

The *JControl/SmartDisplay Evaluation Board* is a 80*133mm PCB, designed as testing and programming platform for the JControl/SmartDisplay. It comes with a linear voltage regulator for the 12V DC power supply, a level shifter (MAX232) and connector for the Serial RS232-Interface, a buzzer, reset-button, cursor-like keyboard, several I/O-pins and a wrap area for user-specific applications.

The following figure gives an overview on the JControl/SmartDisplay Evaluation Board.

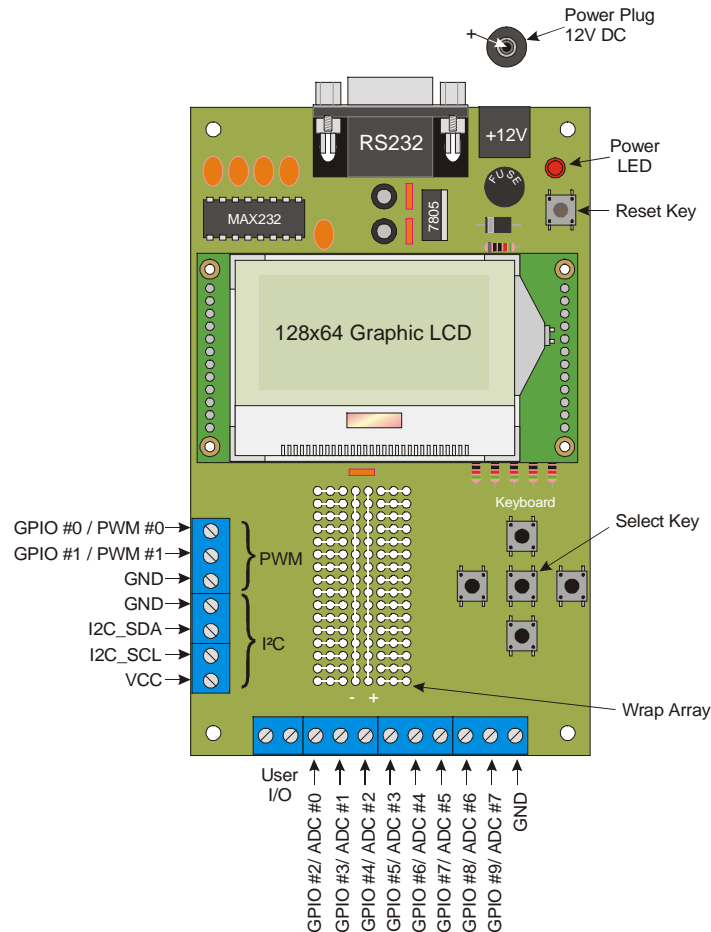


Fig. 1: Overview of the JControl/SmartDisplay Evaluation Board

Setting-up Operation

To start working with the JControl/SmartDisplay Evaluation Board, please connect the wall power supply to the "Power In" connector of the board and connect the serial interface (RS232) to a host PC, running the JControl/DevelopmentSuite.

Entering the System Download Mode

To enter the system download mode, hold the select button in the middle of the keypad and press the reset button. The JControl/SmartDisplay enters the system download mode then and you may upload software from your PC using the serial interface.

Note: The system download mode is entered when Pin 13 (GPIO #9/ ADC #7/ KB_IN) of the JControl/SmartDisplay is pulled to GND during the reset phase. This is done by the select button in the middle of the keypad.

Serial Interface

The pin assignment of the 9-pin Sub-D connector used for the serial RS232-interface is shown in Fig. 2. A simple 1:1 extension cable may be used to connect the JControl/SmartDisplay Evaluation Board to a PC.

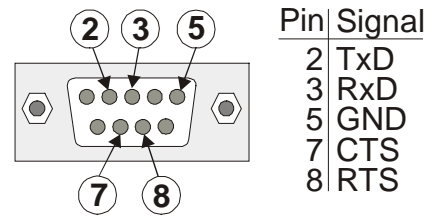


Fig. 2: Pin Assignment of the RS232 Connector (9-pin female sub-D connector)

Power Supply

A Power Supply Plug with 7..20V DC output voltage may be used to power the Evaluation Board. Fig. 3 shows the Pinout of the power-supply connector (pin-diameter: 1.3mm).

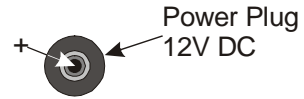


Fig. 3: Pin Assignment of the Power Supply Connector

A red LED indicates the internal 5V power supply of the board.

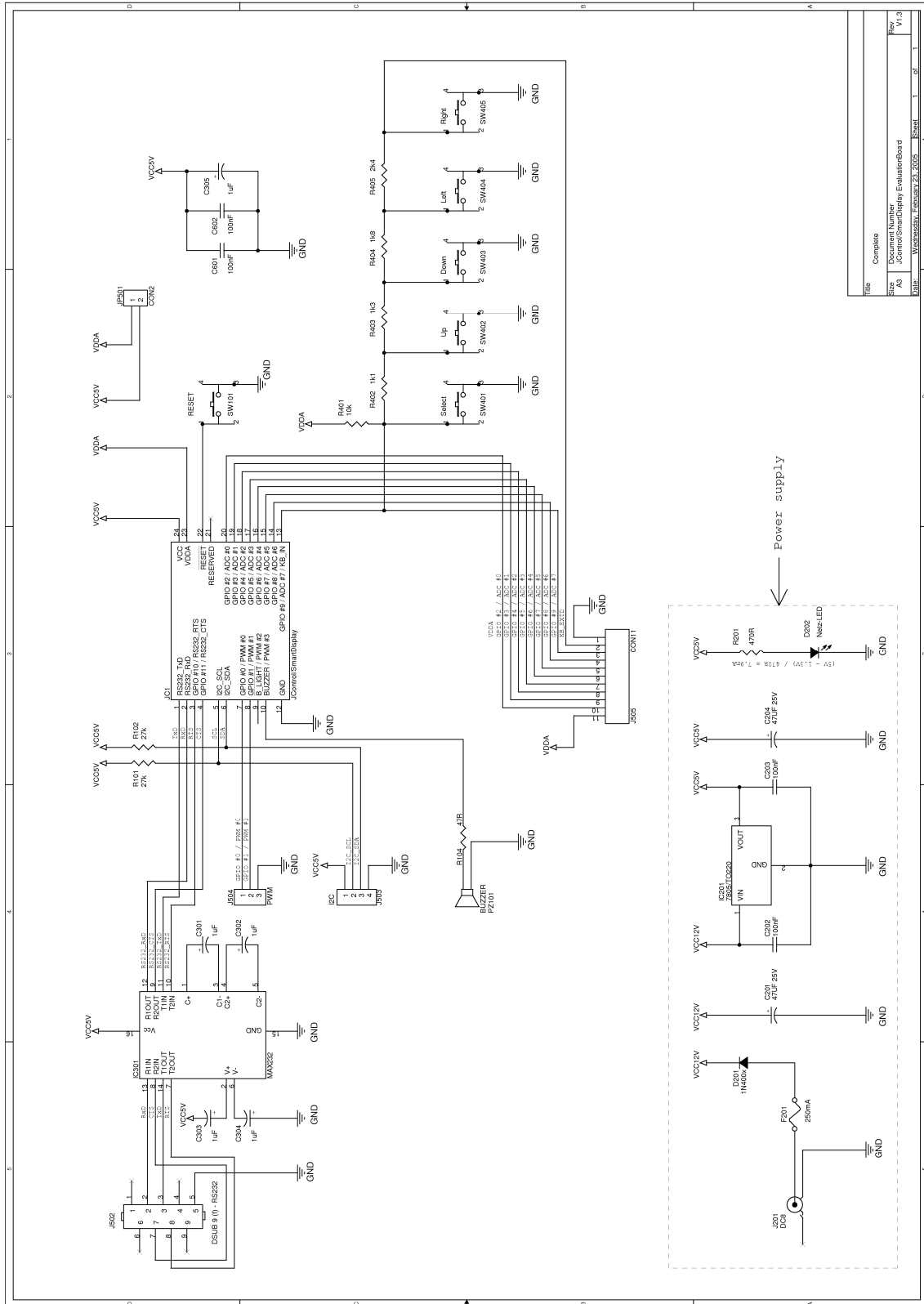
Fuse

A fuse protects the board against damages caused by a short circuit. A round type with 200mil pitch is used, e.g. type ELU 166.050, 250mA, slow.

Schematic

The schematic of the JControl/SmartDisplay Evaluation Board is shown in the following pages.

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Notes

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