

TWR-S12G64 Scalable Platform for Automotive Applications Quick Start Guide Addendum

Jumper Options Configuration Errata

The following is a list of all jumper options corresponding to the **TWR-S12G64 Rev D**. The default installed jumper settings are shown in white text within the blue boxes.

Jumper	Option	Setting	Description
JP7	USER SWs, RVs and LED Selection	1-2	Connect PAD4 pin to SW3
		3-4	Connect PAD5 pin to SW4
		5-6	Connect PAD6 pin to SW5
		7-8	Connect PAD7 pin to SW6
		9-10	Connect PAD10 to RV1 POT1
		11-12	Connect PAD11 to RV2 POT2
		13-14	Connect PP0 pin to LED4
		15-16	Connect PP1 pin to LED5
		17-18	Connect PP2 pin to LED6
		19-20	Connect PP3 pin to LED7
JP6	LIN TX Enable	1-3	Routes SCI (TXD0) signal to be output by LIN transceiver, chip (U4) at J8 and J12
	LIN RX Enable	2-4	Routes SCI (RXD0) signal to be output by LIN transceiver, chip (U4) at J8 and J12
	UART TX Enable	3-5	Routes SCI (TXD0) signal to be output by RS232 chip (U3) at J11
	UART RX Enable	4-6	Routes SCI (RXD0) signal to be output by RS232 chip (U3) at J11
JP5	LIN POWER	1-2	12 volts for LIN bus
		3-4	12 volts for LIN transceiver
JP1	CAN PWR	1-2	CAN transceiver power enable
JP4	PWR Selector	1-2	Selects the board to be powered from the 3.3-volt elevator card rail
		3-4	Selects the board to be powered from the 5-volt USB connector
		5-6	External source selected as power source
JP3	CAN (H/L)	1-2	SPLIT Termination to CAN - H line
		3-4	SPLIT Termination to CAN - L line

Step-by-Step Installation Instructions

TWR-S12G64 Rev D

1 Install Software and Tools

- Install CodeWarrior Development Studio for S12 V5.1 or later
- Install CodeWarrior service pack for S12G64
- Install CodeWarrior service pack for S12G Processor Expert support

A 30-day evaluation license of CodeWarrior is included on the DVD for your convenience. For updates, please visit freescale.com/TWR-S12G64.

3 Connect the UART Cable

Connect DB9 cable adapter to **J11** and attach to PC's serial port (requires HyperTerminal to monitor TWR-S12G64 demo communications: 9600 BR, 8-bit, no parity, one stop bit, no HW control), verify two jumpers are installed at **JP6** connecting 3-5 and 4-6. Verify 10 jumpers are installed at **JP7** connecting 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18 and 19-20.

4 Using the Example Project

The pre-loaded example project utilizes the TWR-S12G64's potentiometer 1, push button switches and LEDs. Once the board is plugged in, you can adjust potentiometer 1 and the bank of four LEDs should increase/decrease the toggling speed in response. Each LED will be turned off while the corresponding push button is pressed. The value of the RV1 value can be monitored in the HyperTerminal window.

2 Connect the USB Cable

Connect one end of the USB cable to the PC and the other end to the mini-B connector on the TWR-S12G64 board. Allow the PC to automatically configure the USB drivers if needed. Verify **JP4** has a jumper installed to connect three and four pins.

5 Learn More About the S12G64

Read the release notes and documentation on the DVD or at freescale.com/S12G.

- The Processor Expert graphical initialization software included in your CodeWarrior installation will help reduce your time to market
- CodeWarrior for S12 with examples

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