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CAN AND LIN SHIELD KIT



Kit Contents:

- 1. CAN and LIN Shield Board
- 2. Three jumper wires (5 inches each)
- 3. Three jumper wires (4 inches each)
- 4. Four connectors (one 10x1, two 8x1 and one 6x1)
- 5. Quick Start Guide (this document)



www.cypress.com/CY8CKIT-026

Inspect the contents of the kit; if anything is missing, contact your nearest Cypress sales office for assistance. Go to www.cypress.com/support for more information on Cypress sales offices and support.

CY8CKIT-026 QUICK START GUIDE



- Download and Install the CY8CKIT026Setup.exe for the CY8CKIT-026 CAN and LIN Shield Kit from www.cypress.com/CY8CKIT-026
- This installs the PSoC Creator™ IDE, CAN and LIN Shield Kit code examples, documents and hardware design files
- The example in this guide uses a CY8CKIT-044 PSoC 4 M-Series Pioneer Kit as the base board. Any Cypress kit that supports CAN or LIN through Arduino compatible headers may be used



- Connect the CY8CKIT-044 PSoC 4 M-Series Pioneer Kit to a PC through a USB cable
- Launch PSoC Programmer from the Start menu.
 Using the 'File Load' button, navigate to the
 Hex Files folder in the following path:
 <Install_Directory>\CY8CKIT-026 CAN and LIN
 SHIELD KIT\<\expression>\Firmware\Hex Files
- Select the hex file 'CAN_Simplex_Tx_CY8CKIT-044 hex'
- · Click the 'Program' button on PSoC Programmer



- The CY8CKIT-044 PSoC 4 M-Series Pioneer Kit needs to be configured to work at 5.0 V. This can be done using Jumper J9 on the CY8CKIT-044 PSoC 4 M-Series Pioneer Kit
- Connect the CY8CKIT-026 CAN and LIN Shield Kit to the CY8CKIT-044 PSoC 4 M-Series Pioneer Kit
- Connect the following pins on the CY8CKIT-026 using the given wires CAN2_RX connected to J2_13
- This completes the connection of the CAN2 transceiver to the Arduino header (J2)

CAN2 TX connected to J2 15

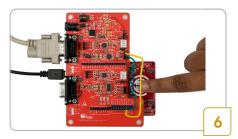


- A CAN analyzer is required to perform these steps (Refer to the user guide if you don't have a CAN analyzer)
- Connect the CY8CKIT-026 to a CAN analyzer using the DB9 female connector for CAN2
- Connect the CAN analyzer to the PC through a USB cable

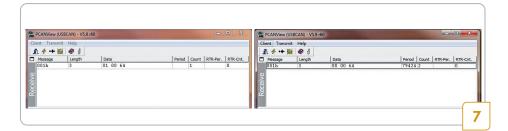
CY8CKIT-026 QUICK START GUIDE



 This project 'CAN_Simplex_Tx_CY8CKIT-044.hex' transmits a 3 byte CAN message with a baud rate of 125 Kbps. Set up the CAN analyzer (using the analyzer's software) accordingly



- Touch on the center of the Gesture Pad of the CY8CKIT-044
- The blue LED on the CY8CKIT-044 glows



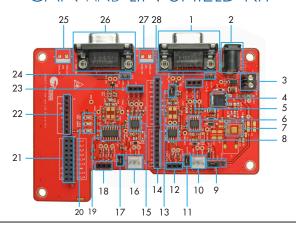
A 3 byte CAN message is transmitted to the CAN analyzer
 The 3 byte data can be seen on the CAN analyzer software on your PC

Byte1: 0x01 Byte2: 0x00 Byte3: 0x64

Touch again on the center of the Gesture Pad to see the blue LED turn off, and values on the CAN
analyzer software change to

Byte1: 0x00 Byte2: 0x00 Byte3: 0x64

CAN AND LIN SHIELD KIT



- 1. DB9 female connector for CAN2
- 2. 12 V Power jack
- 3. 12 V input screw terminal
- 4. 12 V 5 V power regulator
- 5. LIN2 I/O connector
- LIN2 transceiver TJA1020T/CM
- Cypress PMIC S6BP202A*
- CAN2 transceiver TJA1051T/3
- 9. Power selection jumper
- 10. 3-Pin male connector for LIN2
- 11. 12 V power jumper (from LIN2)
- 12. CAN2 I/O connector
- 13. CAN2 termination resistor jumper
- Arduino™ compatible main board
 I/O header (J3 and J4)

- 15. LIN1 transceiver TJA1020
- 16. 3-Pin male connector for LIN1
- 17. 12 V power jumper (from LIN1)
- 18. CAN1 I/O connector
- 19. CAN1 transceiver TJA1055T/3C
- 20. Status LEDs
- 21. Arduino compatible main board I/O header (J2)
- 22. Arduino compatible main board power header (J1)
- 23. LIN1 I/O connector
- 24. 12 V power jumper (from CAN1)*
- 25. CAN1 screw terminal*
- 26. DB9 female connector for CAN1
- 27. CAN2 screw terminal*
- 28. 12 V power jumper (from CAN2)*

*Not populated

CY8CKIT-026 CAN and LIN Shield Kit Features:

- Evaluate the CAN and LIN capabilities of Cypress's PSoC and Flexible MCU families
- 2 CAN transceivers (capable of high accuracy and high speed)
- 2 LIN transceivers
- Arduino compatible headers

For the latest information about this Kit and to download Kit Software and Hardware files, visit www.cypress.com/CY8CKIT-026

