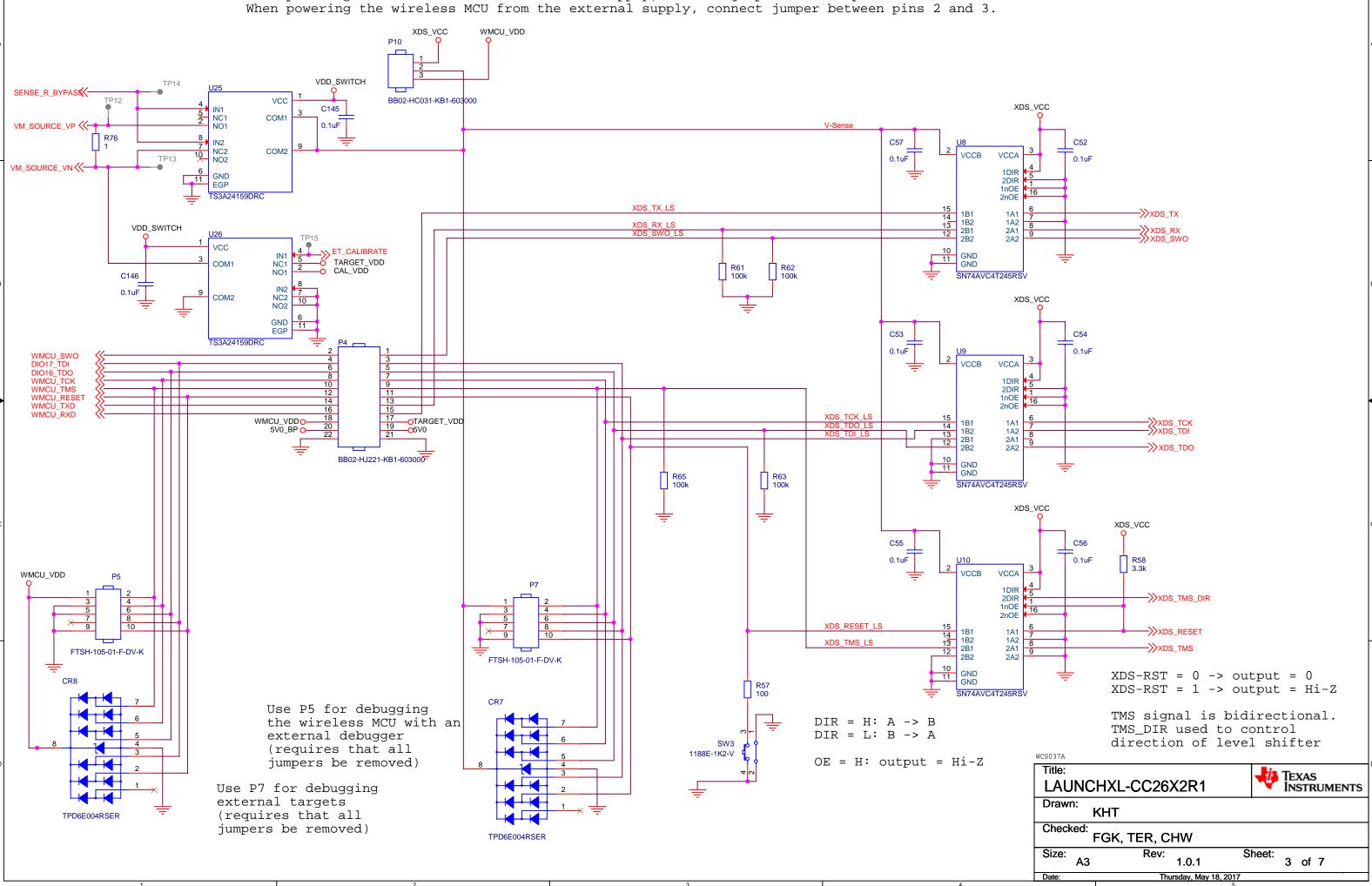


XDS110 Debugger Interface

P10 selects the voltage source for the level shifters
When powering the wireless MCU from the XDS supply, connect jumper between pins 1 and 2.
When powering the wireless MCU from the external supply, connect jumper between pins 2 and 3.



XDS110 Debugger PB0/USB0ID 95 R114 1k PA0/U0RX XDS_TX XDS_TCK PA1/U0TX PB1/USB0VBUS PA2/SSI0CLK PA3/SSI0FSS PB2/I2C0SCL PB3/I2C0SDA XDS_TMS XDS_TDO XDS_TDI ET_SSIFSS ET_SSICLK PA4/SSI0XDAT0 PB4/AIN10 PA5/SSI0XDAT1 PB5/AIN11 PA6 PA7 PD0/AIN15 PD0/AIN15 PD1/AIN14 PC0/TCK/SWCLK PD2/AIN13 PC1/TMS/SWDIO PD3/AIN12 PC2/TDI PC3/TDO/SWO PD4/AIN7 PD5/AIN6 R25 R23 180 XDS_SWO XDS_TMS_DIR PC4/C1-PC5/C1+ PD6/AIN5 PD7/AIN4 2 CR4 XDS_VCC P8 ET_CAL2 <<-23 PC5/C1+ 22 PC6/C0+ PC7/C0-PF0 42 PF1 44 PF2 45 PF3 46 PF4 XDS_VCC PC7/C0-XDS_VCC -1 LS L296-F C78 C79 C80 C81 8 ITDI Pin 28Pin 113 Pin 101 Pin 69 100nF PH0 30 31 PH2 PH3 C35 C36 C37 C38 C39 100nF 100nF 100nF 0.1uF 10nF 10nF 10nF 0.1uF 49 50 C83 C84 C85 DNM 100nF 100nF 4.7uF PK0/AIN16 PK1/AIN17 XDS_VCC PK2/AIN18 PK3/AIN19 USB_VBUS PK4 PK5 C87 C86 82 83 84 85 86 94 93 PL1 PL2 XDS_VCC **GNDA** 100nF 4.7uF C77 R83 XDS_VCC 10k_____O 17 48 80 114 55 58 U15 PL3 PL4 PK7 GND GND GND GND GND GND VDDA PM0 PM1 78 77 76 76 75 74 PM4 73 PM5 PM6 PM7 71 VDDA1.8 VDD1.8 ID EXTVBUS PL5 PL6/USB0DP 87 115 C41 VDDC VDDC 4.7uF XDS_VCCQ VDD1.8 STP PL7/USB0DM 107 108 PN0 PN1 109 PN2 PN2 PN2 PN3 111 PN4 PN5 5 C43 C44 10nF RBIAS R84 12k **VDD3.3** 24MHz J6 105164-0001 VDD3.3 VBAT 0.1uF RESET R87 VDD3.3 VDD3.3 TM4C1294NCPDTT3R 1Meg R82 10k PP0/C2+ PP1/C2-PP2 PP3 PP4 PP5 VBUS XO R31 O XDS_VCC 10k OXDS_VCC REG_EN NXT PQ0 PQ1 PQ2 C46 51 М2 DATA0 R116 CLKOUT DATA1 0.1uF ___ 20k PQ3 PQ4 DATA2 DATA3 CPEN R32 33k DATA4 DATA5 TM4C1294NCPDTT3R DATA6 DATA7 FGP GND CR6 GND 1 USB3300-EZK | | XDS_VCC XDS_VCC R17 10k R18 4.7k R20 100 TPD4E004DRY U6 nRST VREFA+ LM4040B25IDCK C50 C32 nWAKE nHIB Inrush current limit 10nF EN0RXIP OSC0 $XDS_VCC = 3.3 V$ XDS_VCC C33 **ENORXIN** USB_VBUS 66 XOSCO XOSC1 FL2 Y3 16MHz 4 12pF **ENOTXOP** TP10 **ENOTXON** OUT OUT C151 BLM18HE152SN1 59 R33 51k C47 C48 RBIAS C150 Ω1 TM4C1294NCPDTT3R C149 ΕN FB __ 2.2uF 15pF R28 4.87k 10nF NX2301P C34 12pF 0.1uF 3.3uF NC GND R34 30k GND/TAB C82 0.1uF TEXAS INSTRUMENTS LAUNCHXL-CC26X2R1 R85 510k Drawn: **KHT** Checked: FGK, TER, CHW Size: Rev: Sheet: 1.0.1 4 of 7 Thursday, May 18, 2017

EnergyTrace nCLR CLK ET_3V3 ET_DVDD ET_+12V L22 BLM21PG221SN1 ET_+12V BLM21PG221SN1 GND N74LVC2G74DCU C68 ET_AVDD ET_3V3 C65 GND OUT 16.384MHz C69 BLM21PG221SN1 __ 0.1uF C64 O ET_-12V ET_DVDD Front end ET_AVDD O 0.1uF C101 ET_-12V ET_PM2 <<-DVDD O ET_1V8 AVDD AVDD DNM U12 ET_-12V INA118U **Q** OPA211AIDGKT ET_AVDD O 1uF VM_SOURCE_VN <<-→ ET_SSICLK R93 100k SCLK nCS DIN DOUT R94 100k ET_DVDD ET_SSIDAT0 ET_SSIDAT1 ET_SSIFSS CR9 MBRM120L DNM nDRDY/FSYNC DAISYIN R71 2.61k VM_SOURCE_VP << C92 C93 **FSMODE** C61 FORMAT nRESET/nPWDN OSR0 —≫ ET_PN3 R92 60.4k 5 AGND AGND R110 100k DNM FILTER0 ADS127L01IPBS LOW LOW Voltage reference Calibration VDD_SWITCH CAL_VDD C74 2.2uF VCC ->>ET_CAL0 C144 0.1uF R124 _{0.25W 1%} REF5025 2.2uF COM2 ET_3V3 C142 R125 36.5 _{0.5W 1}% IN3 NO3 СОМЗ VOUT U11 IN4 NO4 C70 1 NC_1 NC_7 NC_8 ET_3V3 5 OPA320AIDBV R77 0.22 COM4 TRIM/NR 10uF C73 ET_3V3 GND 7 TEMP $\frac{3}{2}$ C72 GND TS3A4751RUCR REF5025AID 47uF __ 0.1uF R129 47k TEXAS INSTRUMENTS LAUNCHXL-CC26X2R1 Drawn: KHT Checked: FGK, TER, CHW Rev: 1.0.1 Sheet: 5 of 7 Thursday, May 18, 2017

EnergyTrace Power Supply

