

# Euler: Dual Mode Bluetooth & Wi-Fi Short Range Development Board

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Product	Band	Features	SCH #	PCA #	PCB #
BX310x-ETH	2.4GHz ISM	Dual Mode Bluetooth & Wi-Fi Discovery Board	2142416	5302784 (STD) 5303819 (ETH)	5302783

## Change List From V3


Removed F1 filter  
 Moved Rubber foot clashing with Test Pin  
 Added Ethernet Support (Significant Multiple Changes)

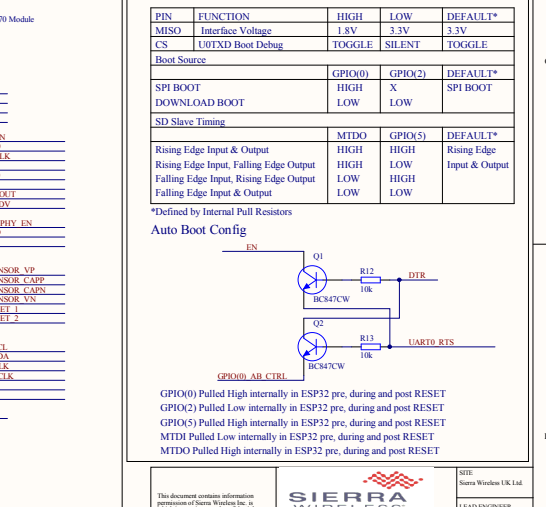
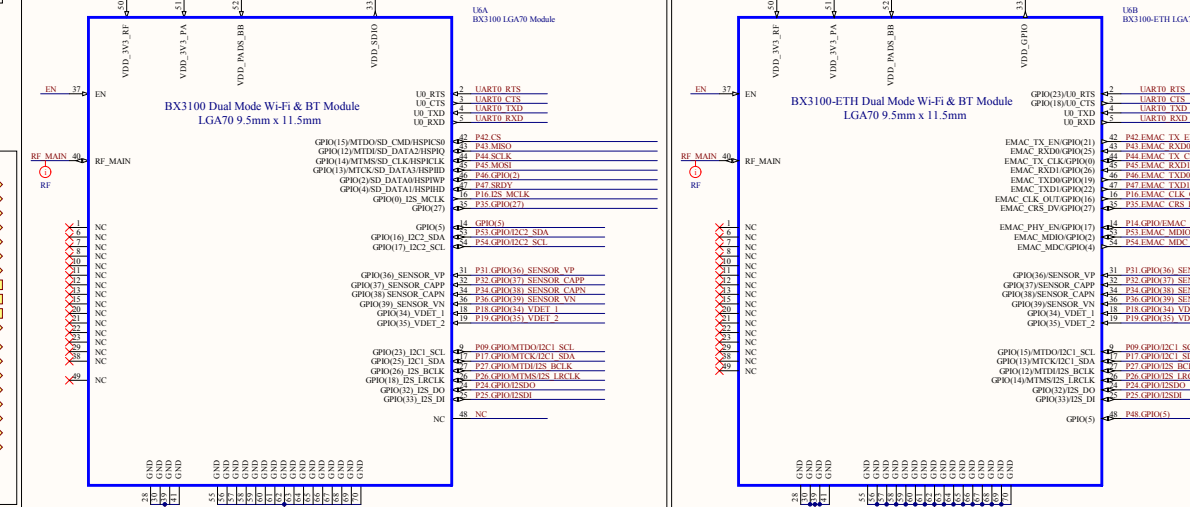
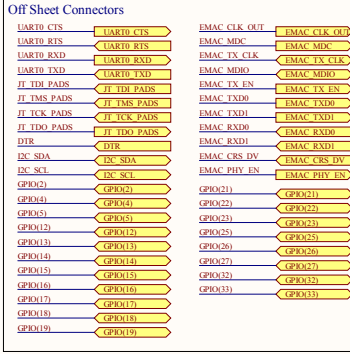
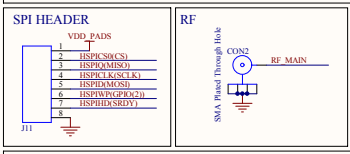
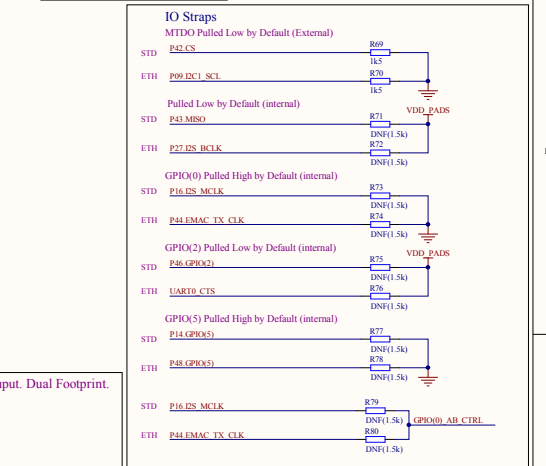
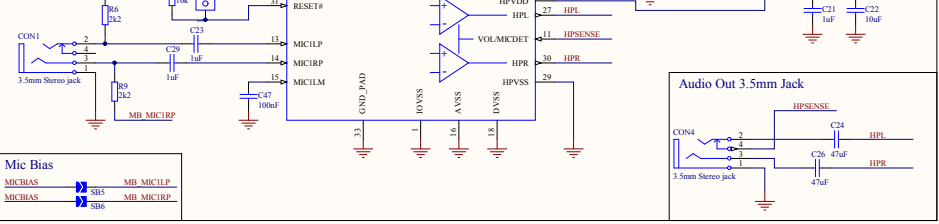
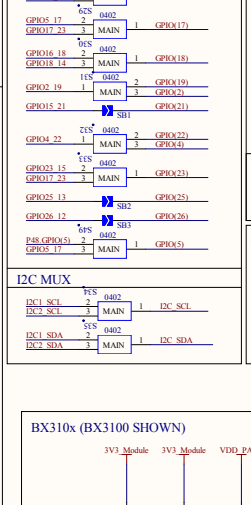
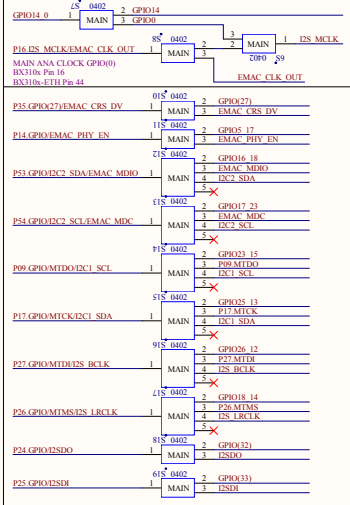
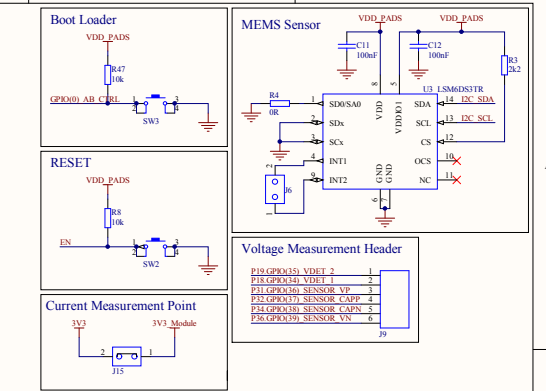
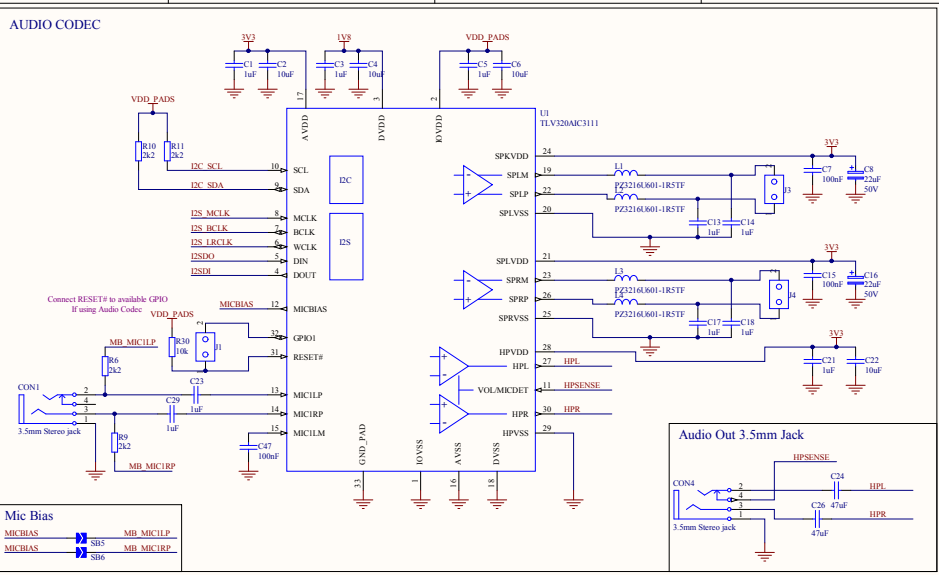
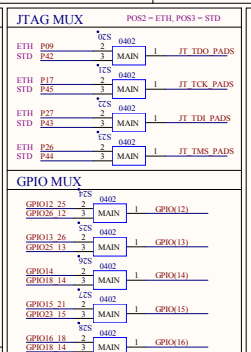
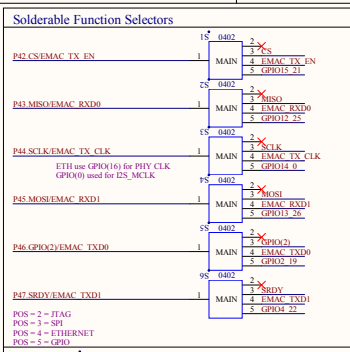
## Altium Variant Notes

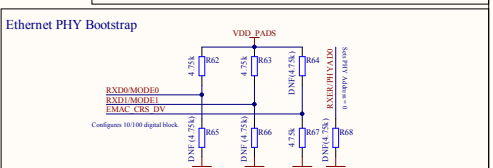
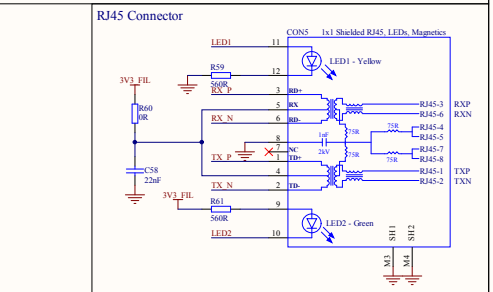
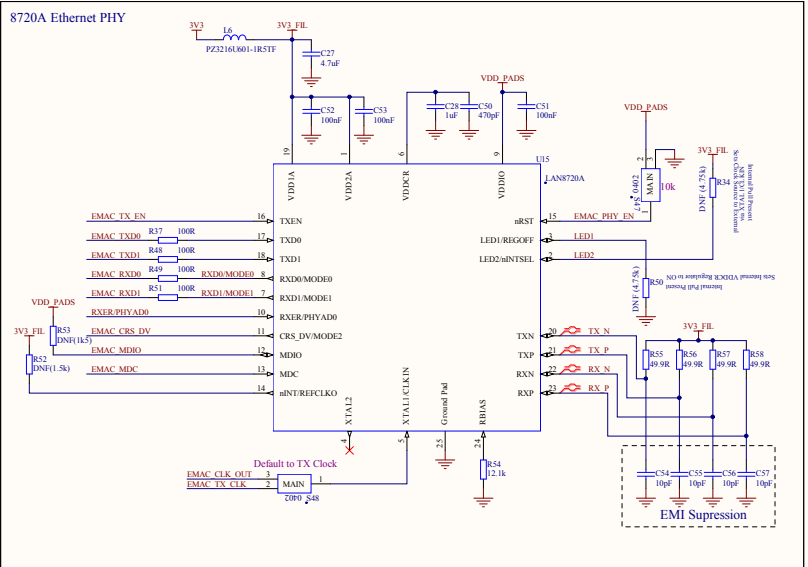
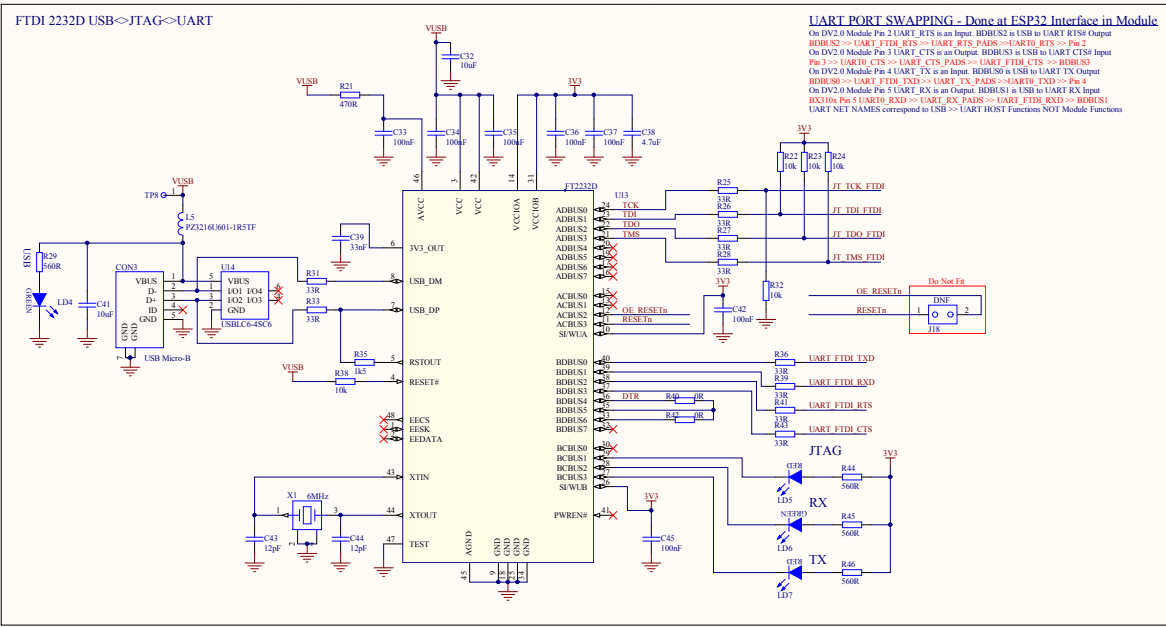
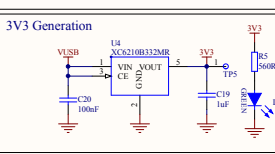
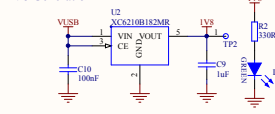
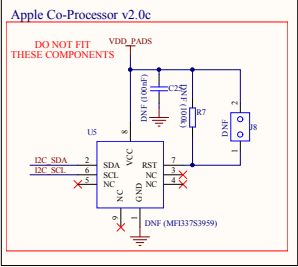
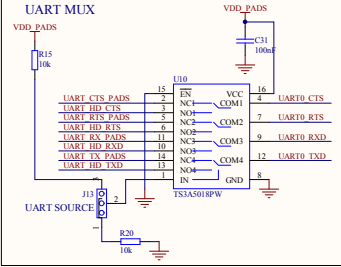
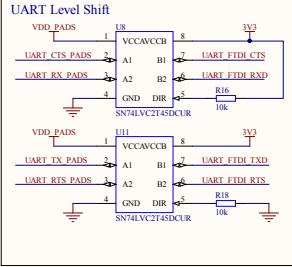
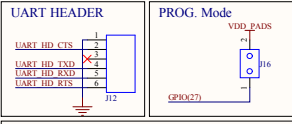
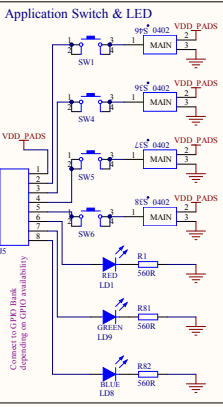
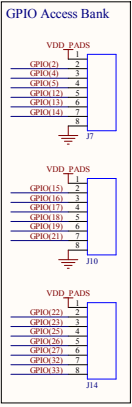
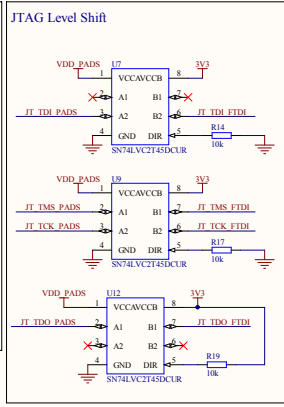
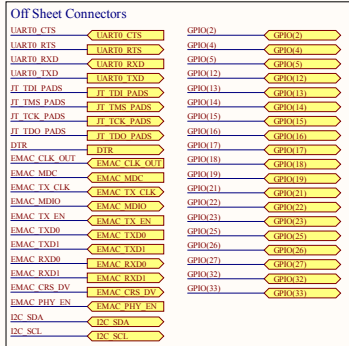
Two Variants defined STD & ETH  
 Schematic has 49 0402 resistor selectable footprints to determine the configuration of IOs depending on Variant Selected  
 Each resistor selectable footprint has multiple options. Choose footprint based on variant MANUALLY to generate PCA outputs  
 All selectable options for have S(x) designators

## Change List From V4.0 to V4.1

Ethernet Module Schematic symbol corrected - GPIO number on UART\_CTS, UART\_RTS, EMAC\_MDIO & EMAC\_MDC changed  
 All Sx (S1-S49) components changed to Standard output in symbol so they appear in BOM and PNP file  
 S3 changed to Position 5 GPIO14\_0  
 S9 changed to Position 2 Routes GPIO0 to I2S\_MCLK  
 S24, S25, S26, S27, S28, S29, S30, S31, S32, S33 No Fit  
 R53 changed to DNF (Do Not Fit)  
 S48 changed to POS 2 (EMAC\_CLK\_OUT)  
 R64 changed to DNF (Do Not Fit)  
 R67 changed from DNF (Do Not Fit) to Fit

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			LEAD ENGINEER Justin Clark		
	DOCUMENT NUMBER 2142416		REV SCH 4.1	REV PCB 4	
	PROJECT: Euler: Dual Mode BT & Wi-Fi Short Range Development Board		SIZE A4		
DATE 2019/8/22	TIME 01:35:45	SHEET 1 OF 4			





	RXDUMODE0	RXDUMODE1	EMAC CRS DV	
10Base-T Half Duplex	0	0	0	Auto-negotiation disabled.
10Base-T Full Duplex	0	0	1	Auto-negotiation disabled.
100Base-TX Full Duplex, CRS is active during TX & RX	0	1	0	Auto-negotiation disabled.
100Base-TX Full Duplex, CRS is active during Reception	0	1	1	Auto-negotiation disabled.
100Base-TX Half Duplex is advertised, CRS is active during TX & RX	1	0	0	Auto-negotiation enabled.
100Base-TX Half Duplex is advertised, CRS is active during Reception	1	0	1	Auto-negotiation enabled.
Power Down mode	1	1	0	Auto-negotiation enabled.
All capable	1	1	1	Auto-negotiation enabled.