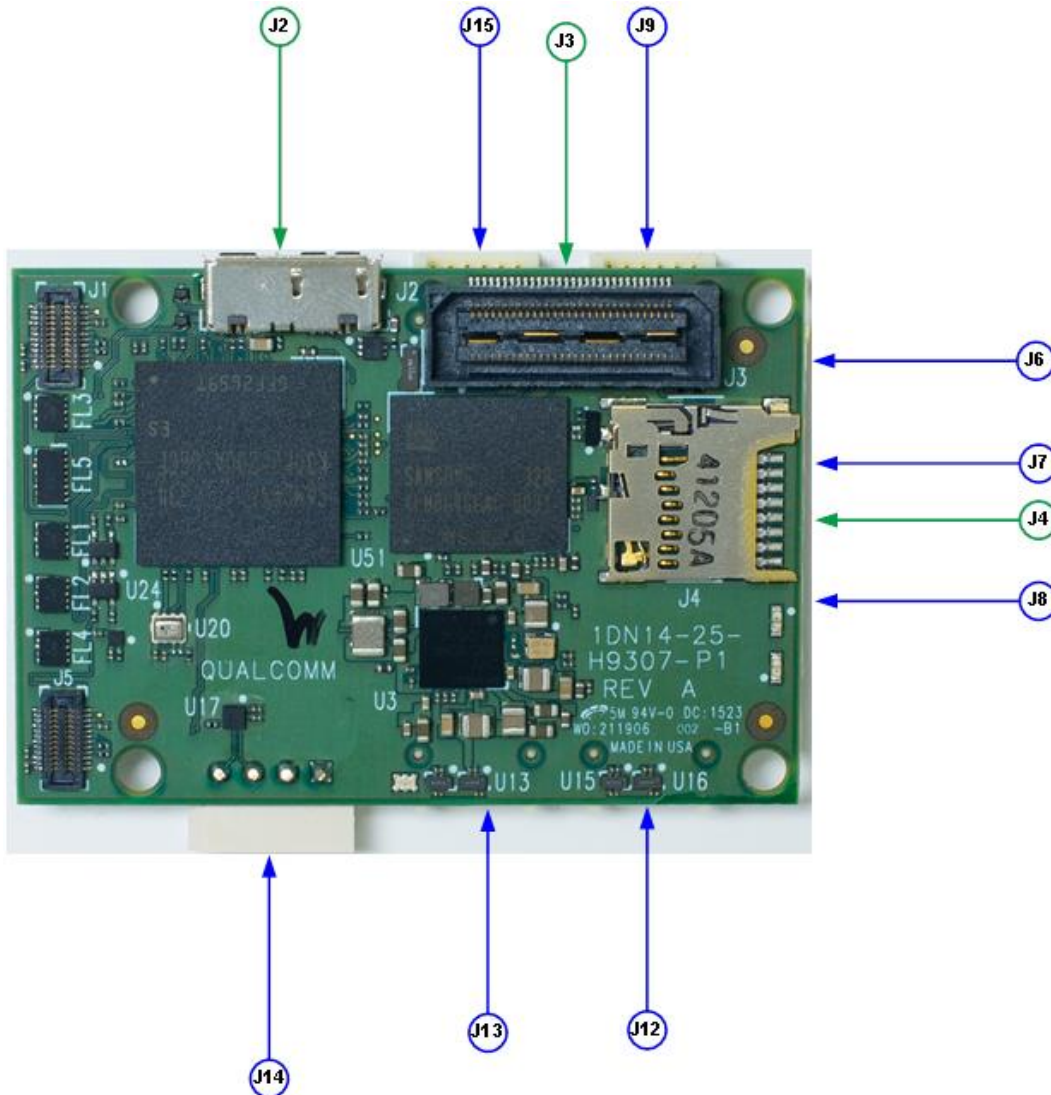# Snapdragon Flight - Board Pin-outs   version 1.0

Connector	Function	MFG	MFG Part Number	Pin Configuration	Mating Connector	Notes
CCA TOP						
J2	USB 3.0 OTG	KYCON	KMMX-AB10-SMT1SB30	Micro-A/B socket per USB	Micro A/B Plug	Requires MICRO-A PLUG TO STD-A in order to get 3.0 SS functionality. Example cable: Amphenol RUB30-0075
J3	Expansion B2B	Samtec	QSH-030-01-L-D-A-K	60-pins, see schematics.	QTH-030-02-L-D-A	Multiple stack-heights available.
J4	Micro-SD Slot	Molex	503398-0891	Micro-SD card slot, per SD Card association.	SD Cards	

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CCA BOTTOM						
J6	GPS	Hirose	U.FL-R-SMT-1 (10)	Center Conductor	U.FL-LP	Passive antenna configuration (no DC bias)
J7	WLAN0	Hirose	U.FL-R-SMT-1 (10)	Center Conductor	U.FL-LP	WiFI MIMO Channel 0
J8	WLAN1/BT	Hirose	U.FL-R-SMT-1 (10)	Center Conductor	U.FL-LP	WiFi MIMO Channel 1, BT 4.0
J9	BLSP2 off-board (external IMU or GPS)	Hirose	DF13-6P-1.25H(50)	Pin 1: 3.3V Pin 2: UART2_TXO Pin 3: UART2_RXI Pin 4: I2C2_SDA Pin 5: GND Pin 6: I2C2_SCL	DF13-6S-1.25C cable assemblies	UART and I2C are at 3.3V CMOS levels. I2C has 10K pull-ups. Connect TXO to target device's RXI, and vice-versa.
J12	BLSP8 off-board (external gimbal or sensor)	Hirose	DF13-6P-1.25H(50)	Pin 1: 3.3V Pin 2: UART8_TXO Pin 3: UART8_RXI Pin 4: APQ_GPIO_47 Pin 5: GND Pin 6: APQ_GPIO_48	DF13-6S-1.25C cable assemblies	UART and GPIOs are at 3.3V CMOS levels. Connect TXO to target device's RXI, and vice-versa. GPIO's are not set for I2C (no pull-ups, push-pull driver).
J13	BLSP6 off-board (ESC UART)	Hirose	DF13-6P-1.25H(50)	Pin 1: 5V Pin 2: UART6_TXO Pin 3: UART6_RXI Pin 4: APQ_GPIO_29 Pin 5: GND Pin 6: APQ_GPIO_30	DF13-6S-1.25C cable assemblies	UART and GPIOs are at 5V CMOS levels. Connect TXO to target device's RXI, and vice-versa. GPIO's are not set for I2C (no pull-ups, push-pull driver).
J14	5V DC IN, I2C to power cable "APM"	Molex	22-05-7045	Pin 1: 5V DC Pin 2: GND Pin 3: I2C3_SCL Pin 4: I2C3_SDA	50-37-5043 based cables.	I2C3 is at 5V CMOS with 10K pull-ups. Connect to provided power cable for proper operation and current handling.
J15	BLSP9 off-board (external magnetometer or radio receiver or sensors)	Hirose	DF13-6P-1.25H(50)	Pin 1: 3.3V Pin 2: UART9_TXO Pin 3: UART9_RXI Pin 4: I2C9_SDA Pin 5: GND Pin 6: I2C9_SCL	DF13-6S-1.25C cable assemblies	UART and I2C are at 3.3V CMOS levels. 3.3V power and I/O's can be disabled (see schematic). Connect TXO to target device's RXI, and vice versa. I2C has 10K pull-ups.