

Sensor Tile Breakout Extended V01

The diagram illustrates the Sensor Tile Breakout Extended V01 circuit. It features a central microcontroller (US1, BM10B) connected to various components. The microcontroller is connected to a 9-pin connector (J1) on the left, which provides power (VDD, VIN, VUSB) and communication (RX, TX, SCK, MISO) signals. The microcontroller is also connected to a 9-pin connector (J2) on the right, which provides power (GND) and communication (SWDIO, SWDCLK, RESET, GPIO3, GPIO2, NSS, MOSI) signals. A separate 5-pin connector (SWD) is connected to the microcontroller's SWDIO, SWDCLK, GND, SWDIO, and RESET pins. At the bottom, a 16-pin connector (US2) is connected to the microcontroller's pins, providing power (GND, VDD, VIN, VUSB) and communication (GND, MIC_CLK, RX, TX, SCK, GND, G\$3, G\$4, GND) signals. The microcontroller is labeled US1, BM10B. The bottom connector is labeled US2, BM10B(0.8)_BM10NB(0.8)-16DS-0.4V(51).

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