

The schematic diagram illustrates the DA16200 Module, which includes the main IC U1 (DA16200MOD-AAC4WA32) and the Cortex-JTAG-Debug IC J1.

U1 (DA16200MOD-AAC4WA32) Pin Connections:

- Power and Ground:**
 - VBAT_3V3, VDD_DIO1, VDD_DIO2: Connected to 3.3V.
 - ANT_GND, GND: Connected to ground.
- GPIOs:**
 - GPIOA0, GPIOA1, GPIOA2, GPIOA3, GPIOA4, GPIOA5, GPIOA6, GPIOA7, GPIOA8, GPIOA9, GPIOA10, GPIOA11: Connected to various external components (SPI_CIP0, SPI_COP1, SPI_CS, SPI_CLK, U1RX1, U1TX0, GPIOA6, GPIOA7, GPIOA8, GPIOA9, GPIOA10, GPIOA11).
 - GPIOC6, GPIOC7, GPIOC8: Connected to various external components (GPIOC6, GPIOC7, GPIOC8).
- UART:**
 - UART_RXD (U0RXI), UART_TXD (U0TXO): Connected to external components.
- RTC:**
 - RTC_PWR_KEY, RTC_WAKE_UP, RTC_WAKE_UP2, RTC_SENSOR: Connected to external components.
- JTAG:**
 - JTAG_TCLK (TCLK), JTAG_TMS (TMS): Connected to external components.
- Other:**
 - F_CLK, F_CSN, F_I00, F_I01, F_I02, F_I03: Connected to external components.

J1 (Cortex-JTAG-Debug) Pin Connections:

- Power and Ground:**
 - VCC, SWDIO/TMS, SWDCLK/TCK, SWO/TDO, KEY, NC/TDI, GNDTCT, RESET: Connected to 3.3V.
 - GND: Connected to ground.
- GPIOs:**
 - GPIOC6, GPIOC7, GPIOC8: Connected to external components.

Capacitors:

- C1: 1.0uF, connected to ground.
- C2: 1uF, connected to ground.
- C3: 1uF, connected to ground.
- C4: 10uF, connected to ground.

Arduino R3 Shield & Connectors

The diagram illustrates an Arduino R3 Shield board with the following components and connections:

- Connectors:**
 - B1:** Header connector for the Arduino Uno R3 Shield. Pins are labeled: A0, A1, A2, A3, A4, A5, IOREF, RES, VIN, 5V, 3.3V, AREF, GND, GND, GND, RX, TX, D2, *D3, D4, *D5, *D6, D7, D8, *D9, *D10, *D11, D12, D13, SDA, SCL.
 - J2:** Header connector for the RTC module. Pins are labeled: 10, 9, 8, 7, 6, 5, 4, 3, 2, 1.
 - J3:** Header connector for the UART module. Pins are labeled: DTR, TXO, RXI, VCC, CTS, GND.
- Components:**
 - ARD_RESET:** Push button connected to the IOREF pin.
 - MEAS:** Push button connected to the 3.3V pin.
 - ARD_HW_RX:** Push button connected to the RX pin.
 - ARD_HW_TX:** Push button connected to the TX pin.
 - GPIOA11:** Push button connected to the D2 pin.
 - RTC_SENSOR:** Push button connected to the *D3 pin.
 - RTC_WAKE1:** Push button connected to the D4 pin.
 - GPIOA7:** Push button connected to the *D6 pin.
 - ARD_SW_RX:** Push button connected to the D7 pin.
 - ARD_SW_TX:** Push button connected to the *D9 pin.
 - SPI_CS:** Push button connected to the *D10 pin.
 - SPI_COP1:** Push button connected to the *D11 pin.
 - SPI_CIP0:** Push button connected to the D12 pin.
 - SPI_CLK:** Push button connected to the D13 pin.
- Power and Grounding:**
 - The 3.3V pin is connected to a 3.3V power source.
 - The GND pins are connected to a common ground.



REV:	V10
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Sheet: 1/1

