

Minimal Motorola/NXP/Freescale 68HC11 MCU series programming board configured for Bootstrap mode

The schematic shows the 68HC11_PLCC52 chip (U1) with the following connections:

- Power and 5V TTL serial pins:**
 - VDD (pin 26) connected to +5V through capacitor C3 (100nF).
 - VSS (pin 1) connected to GND.
 - RESET (pin 17) connected to +5V through resistor R2 (4.7K).
- Crystal and Timing:**
 - XTAL (pin 8) and EXTAL (pin 7) connected to an 8MHz crystal (Y1) with capacitors C1 (22pF) and C2 (22pF) to GND.
 - Resistor R1 (10M) is connected between XTAL and EXTAL.
- Serial Adapter (J1):**
 - RX (pin 20) and TX (pin 21) connected to the RX and TX pins of the serial adapter.
 - +5V and GND pins of the adapter are connected to the power supply.
- Chip Pins:**
 - PD0/RX (20), PD1/TX (21), PD2 (22), PD3 (23), PD4 (24), PD5 (25), PE0 (43), PE1 (45), PE2 (47), PE3 (49), PE4 (44), PE5 (46), PE6 (48), PE7 (50), IRQ (19), XIRQ (18), RESET (17), XTAL (8), EXTAL (7), R/W (6), E (5), AS (4), MODA (3), MODB (2), VRH (52), VRL (51).
 - IC3/PA0 (34), IC2/PA1 (33), IC1/PA2 (32), OC5/PA3 (31), OC4/PA4 (30), OC3/PA5 (29), OC2/PA6 (28), PA1/PA7 (27), A8/PB0 (42), PB1 (41), PB2 (40), PB3 (39), PB4 (38), PB5 (37), PB6 (36), PB7 (35), AD0/PC0 (9), AD1/PC1 (10), AD2/PC2 (11), AD3/PC3 (12), AD4/PC4 (13), AD5/PC5 (14), AD6/PC6 (15), AD7/PC7 (16).

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