

# Power Metering / Switch Node

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The diagram illustrates the Power Metering / Switch Node circuit, divided into six numbered sections (1-6).

**Section 1: AC Input and Relay**

- AC Load (J1-1) and AC Line (J2-1) are connected to the relay switch.
- Relay switch (RY1-SW, G5LE-1-36) is controlled by the microcontroller.
- AC Line (J2-2) and AC Line (J2-2) are connected to the relay switch.

**Section 2: Microcontroller (IC1) and Interface**

- IC1: AP2112K-3.3TRG1, SOT25.
- IN, OUT, EN, BP pins are shown.
- Interface pins: CS, RELAY, MOSI, MISO, SCK.

**Section 3: Microcontroller (IC2) and Interface**

- IC2: ATM90E26-YU-B, 228SSOP.
- Interface pins: MMD1, DGND, DVDD, RESET, AVDD, AGND, I2P, I2N, RESV, I1P, I1N, USEL, UREF, AGND.

**Section 4: Microcontroller (IC3) and Interface**

- IC3: LNK306DG, 7-SOIC.
- Interface pins: D, LB, S, BP.

**Section 5: Microcontroller (IC4) and Interface**

- IC4: ES2J-LTP, SMA.
- Interface pins: 5\*4, 1.

**Section 6: Microcontroller (IC5) and Interface**

- IC5: 2N7002, SOT23.
- Interface pins: RY1-COIL, G5LE-1-36, D3, 1N4148WS, SOD-323F.

PowerNode

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