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(57) Abstract :
 An improved voice-controlled adaptive power strip comprises a microcontroller (102), voice recognition unit (101), modular smart plug modules (103), power monitoring sensors (104), load balancing controller (105), wireless communication module (106), and surge protection circuitry (107), housed in a modular array (108). The system enables intelligent device prioritization, voice-activated switching, real-time energy analytics, and safety protection in smart office environments. Its modular design supports scalable use, while wireless control and OTA updates enhance user convenience and automation capability.

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