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(57) Abstract :

The present disclosure introduces system for integration of PMOD WI-FI module using field programmable gate array 100 which enables wireless communication in embedded systems through the integration of PMOD WiFi modules. Traditional microcontrollers face limitations such as restricted memory and processing power, hindering their suitability for high-complexity tasks requiring wireless connectivity. It comprises of PMOD Wifi module 102, field programmable gate array (FPGA) 104, processor 106, vivado software suite 108 and FPGA board 110. The PMOD WiFi modules provide IEEE 802.11 b/g/n connectivity and are seamlessly integrated with FPGA development boards. REFERENCE FIG 1

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