## Introduction to MCU Power Modes

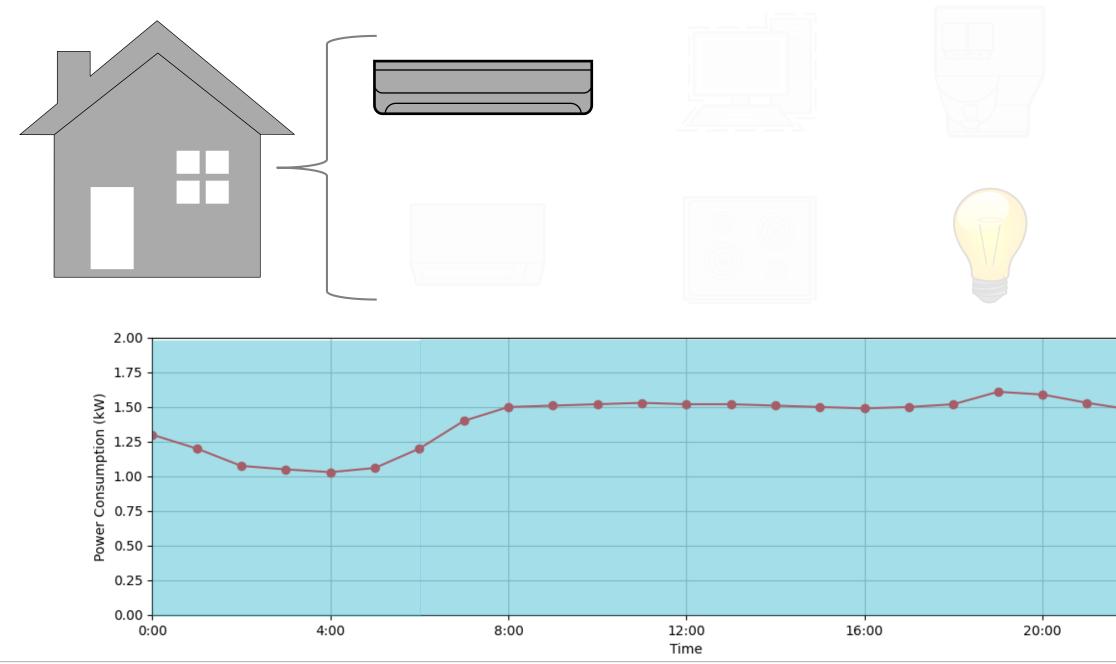
#### TI Precision Labs – Microcontrollers

Presented by Amruta Deole Prepared by Eason Zhou

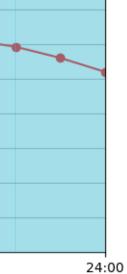




#### What is a power mode?

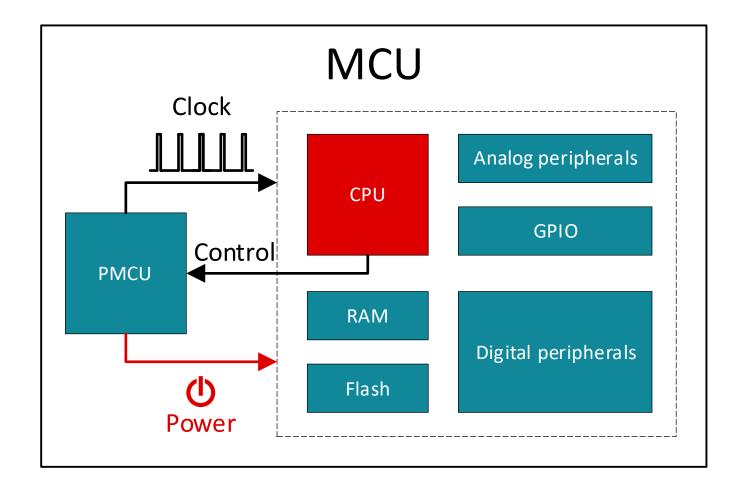






## What is an MCU power mode?

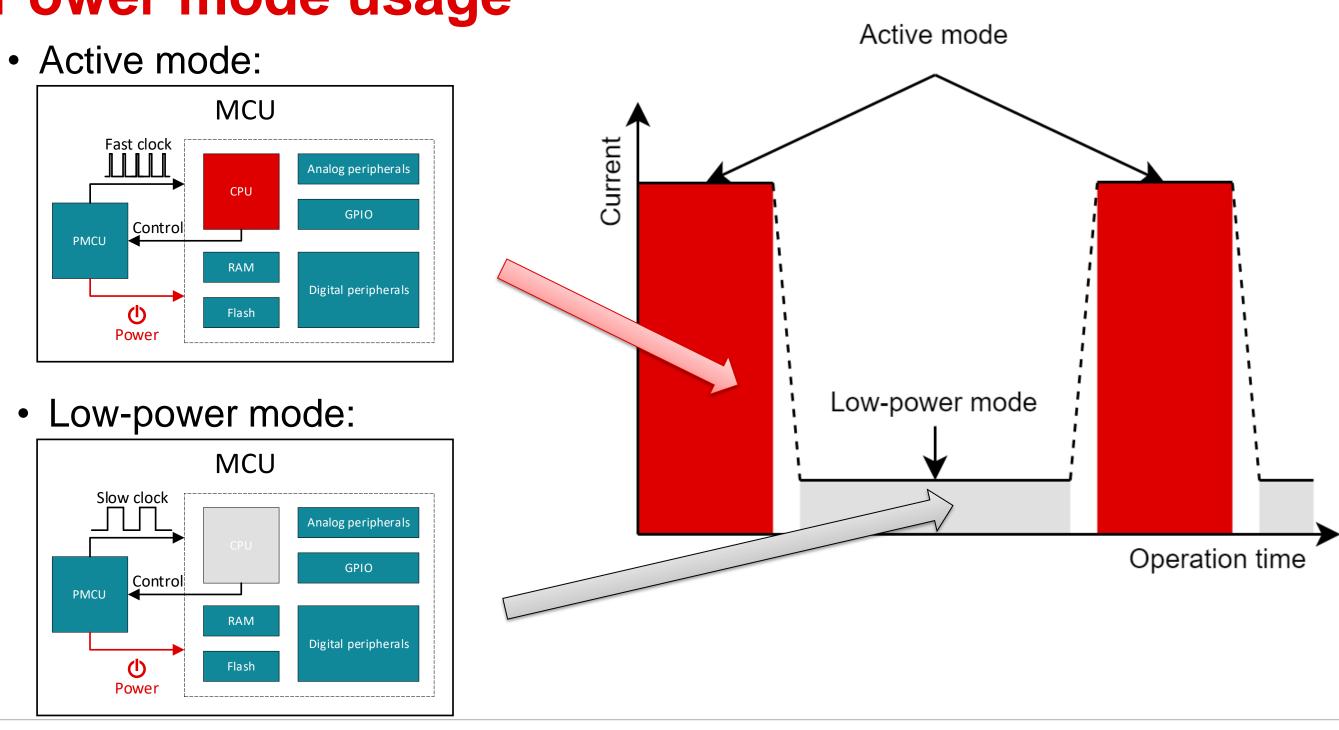
• They are different power consumption levels of MCU by controlling the clock and power supply.



Two general power modes





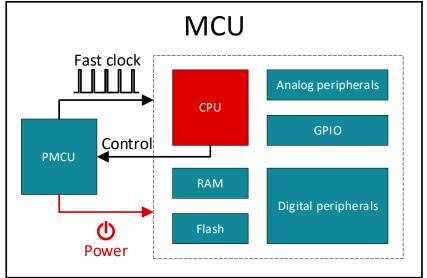


#### **Power mode usage**

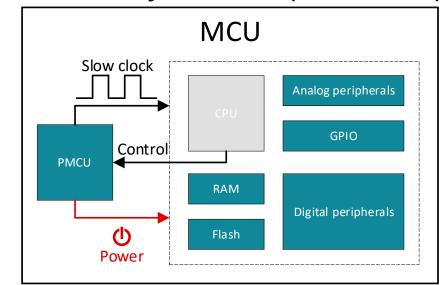


#### Some common power modes

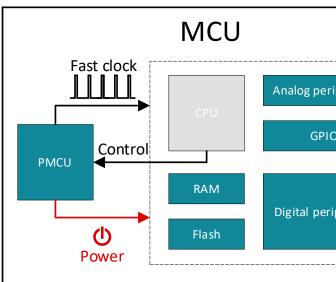
• Run mode (mA level):



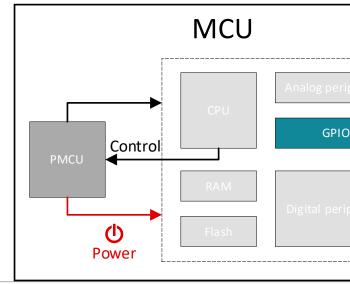
• Standby mode (uA level):



Stop mode (100uA)



• Shutdown mode (uA level or lower):

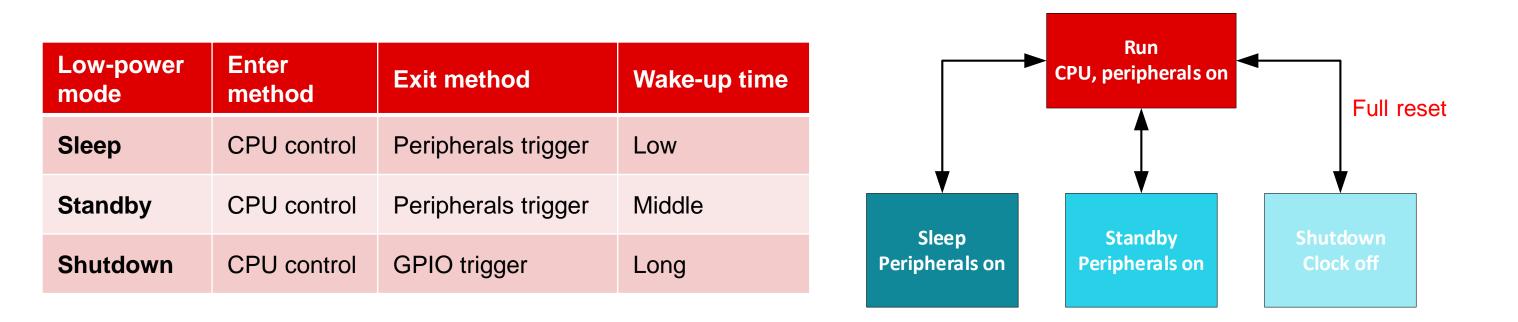


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## Switching between power modes





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