

# Microprocessor ทำอะไรได้บ้าง

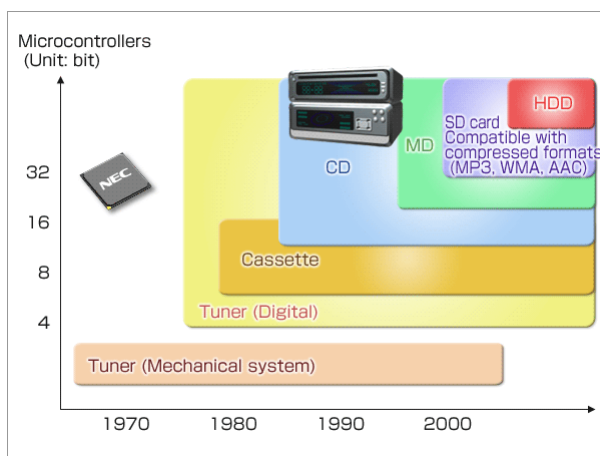


จาก



<http://www.eu.necel.com/>

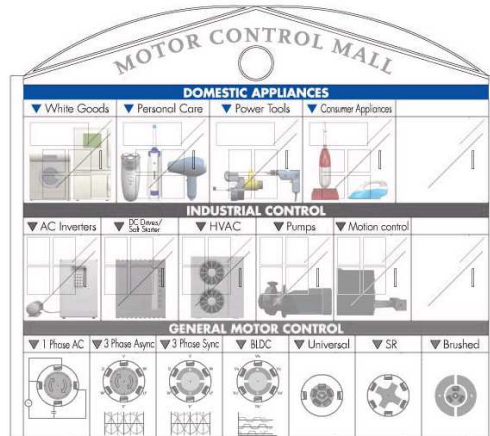
# Microcontrollers and the evolution of car audio



NEC Electronics' Microcontrollers

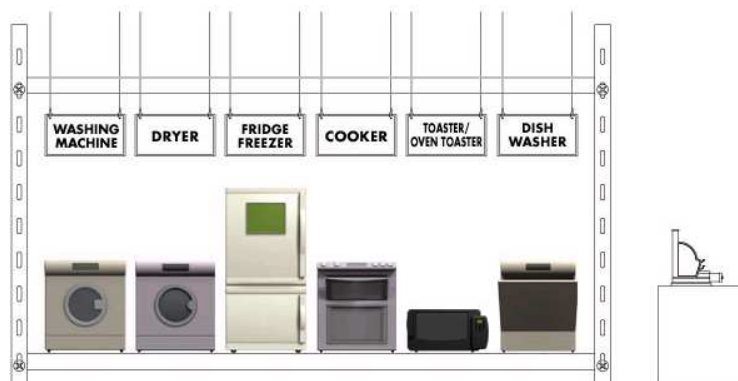
# Domestic Appliances

## Domestic Appliances

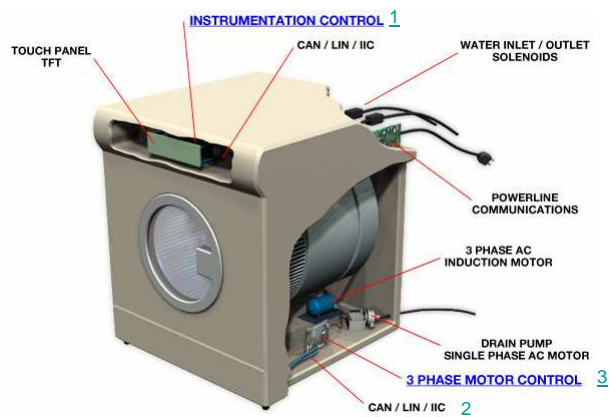


# White Goods

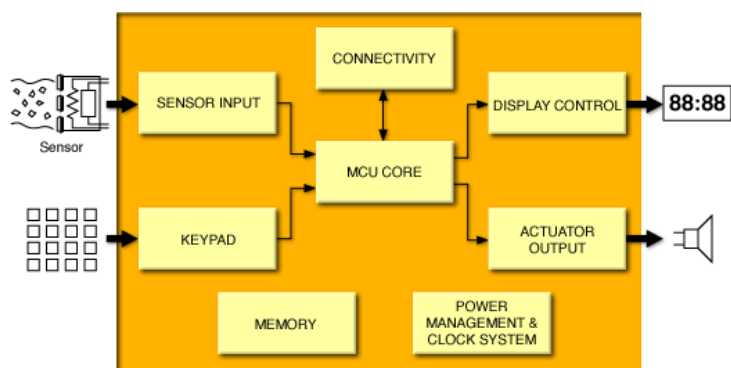
## White Goods



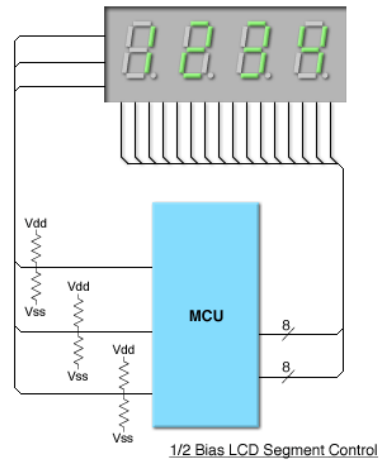
# Washing Machine



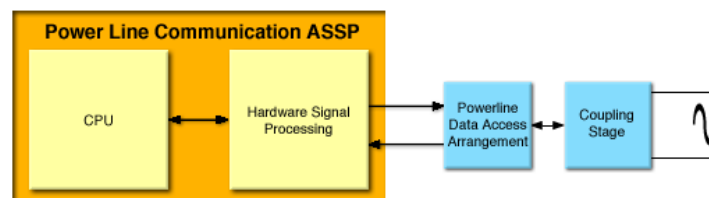
# Instrumentation & System Control



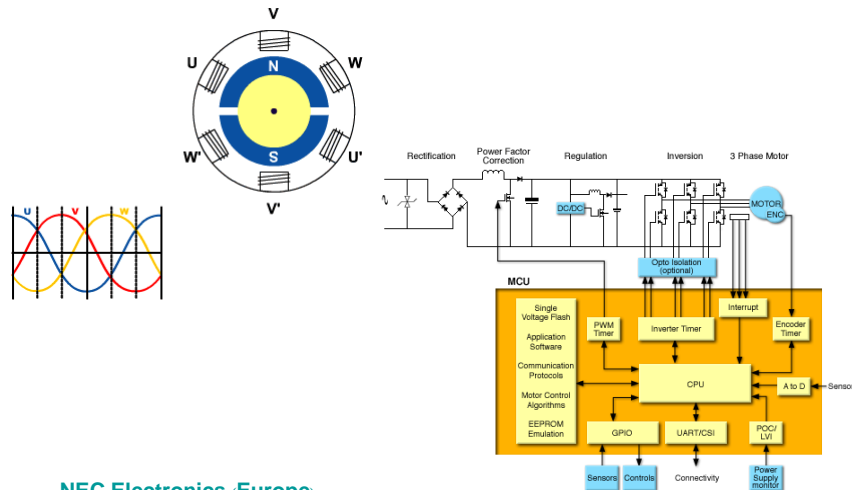
## Display Control



## Powerline Communications

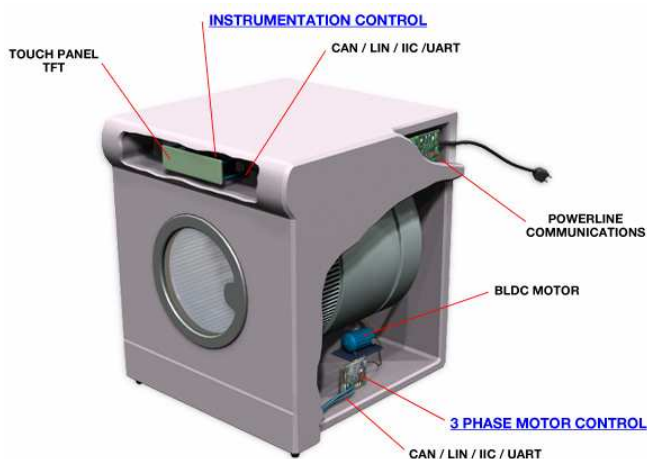


# Three Phase Synchronous AC Motor

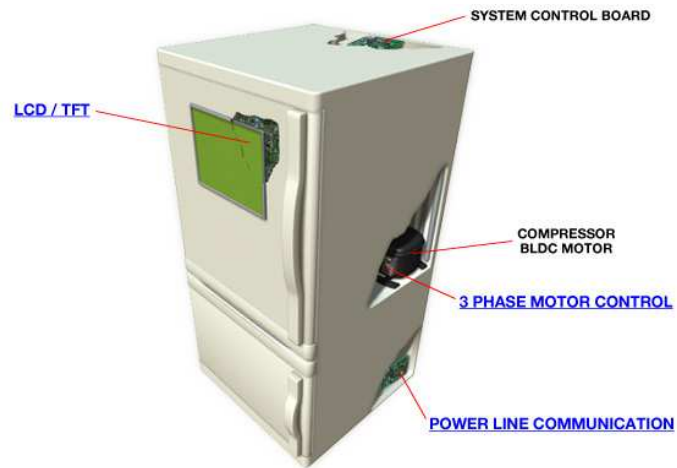


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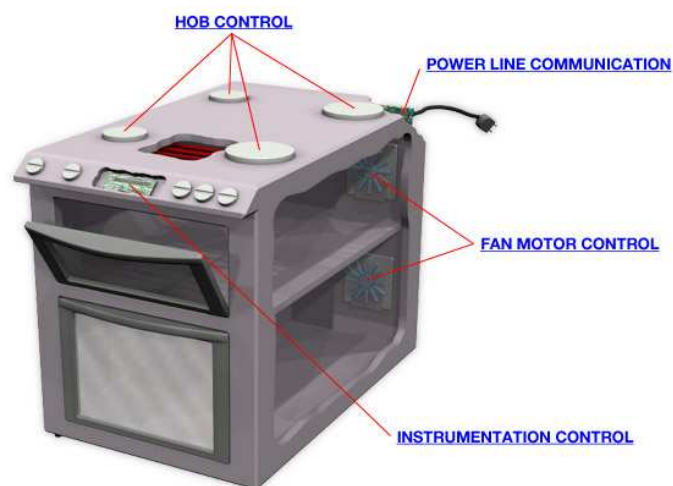
# Clothes Dryer



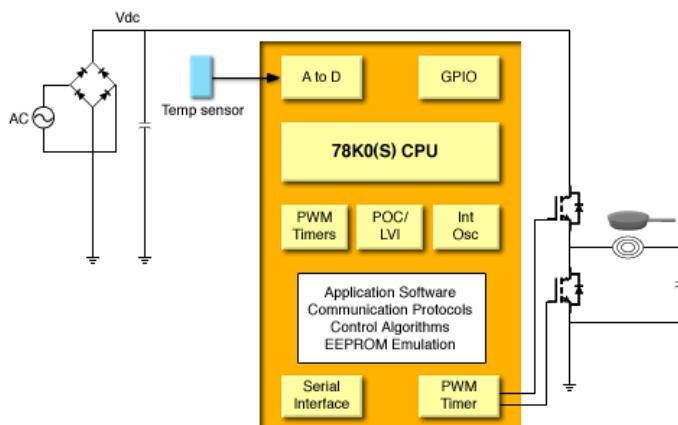
## Refridgerator Freezer



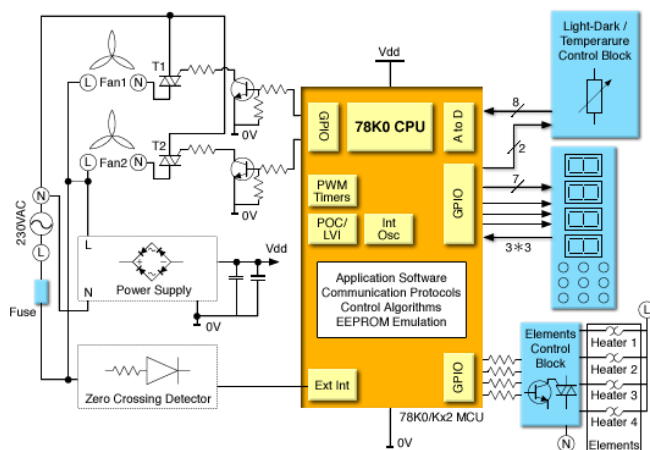
## Cooker/Oven



# HOB Control



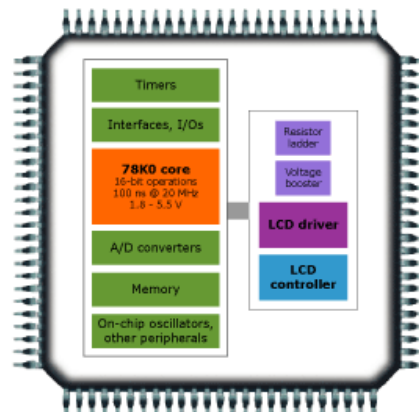
# Fan Control Unit



# Microwave Oven

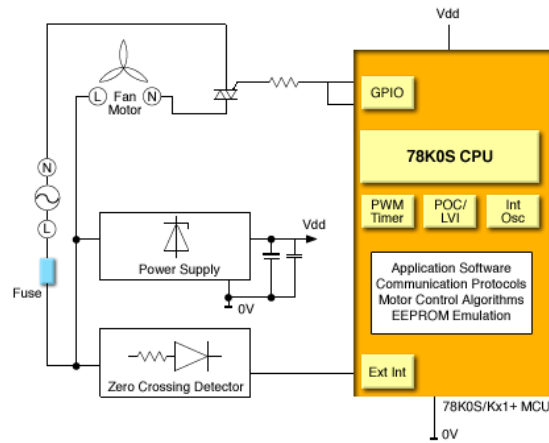


# Display Control

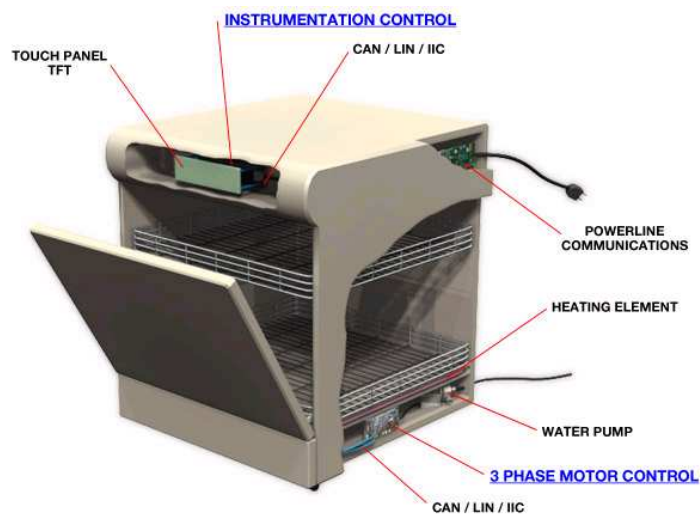




# Motor Control Circuit



# Dishwasher



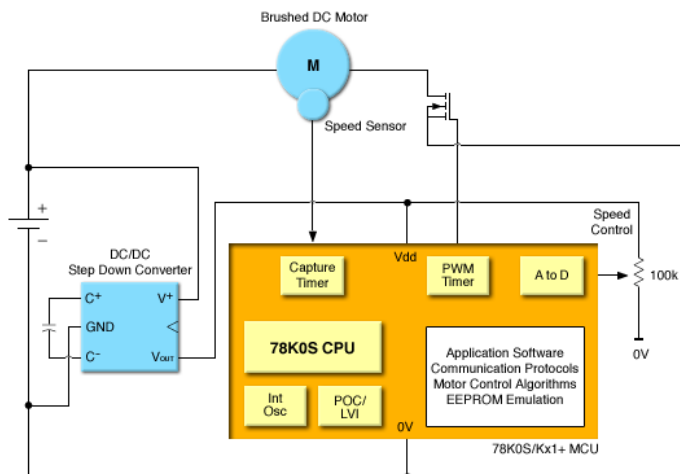
## Personal Care



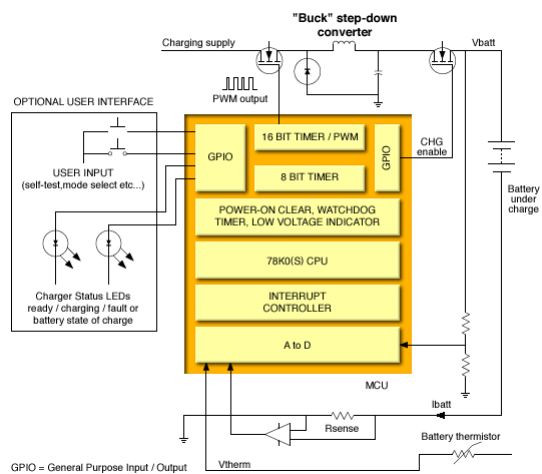
## Electric Shaver



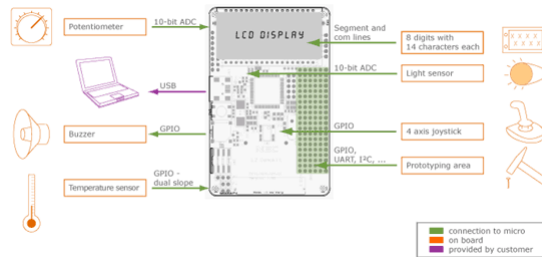
# Motor Control Circuit



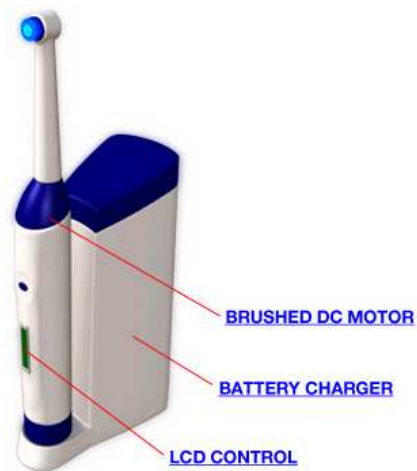
# Battery Charging Circuit



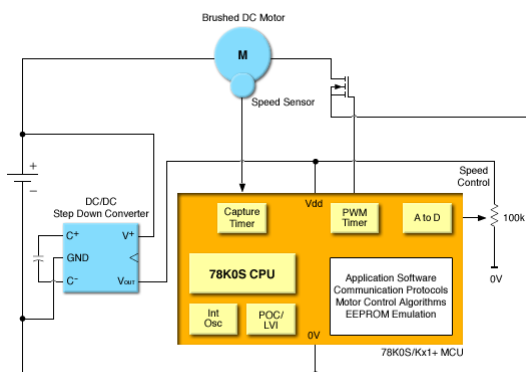
# LCD Control



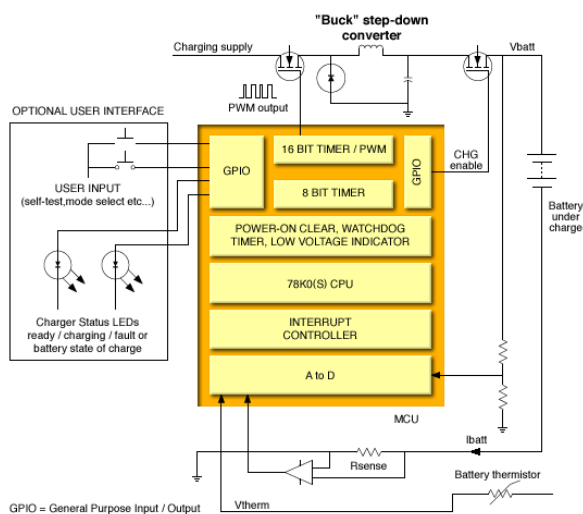
# Electric Toothbrush



# Motor Control Circuit



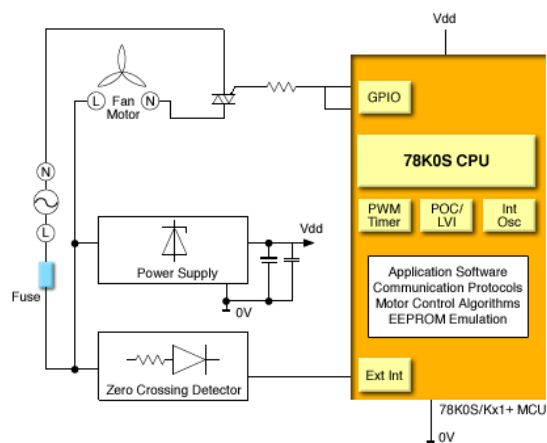
# Battery Charging Circuit



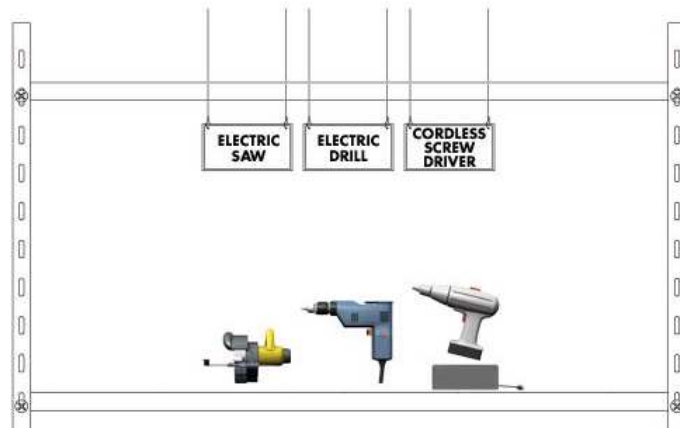
# Hair dryer



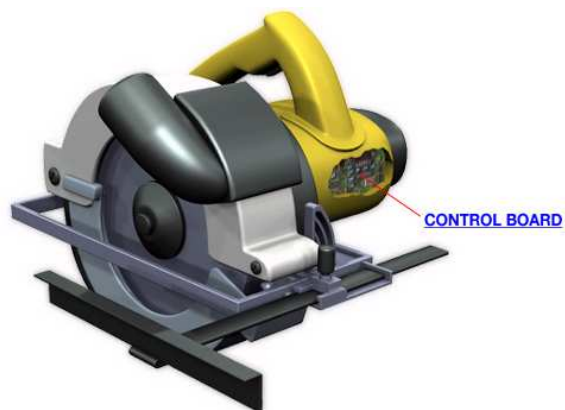
# Motor Control Circuit



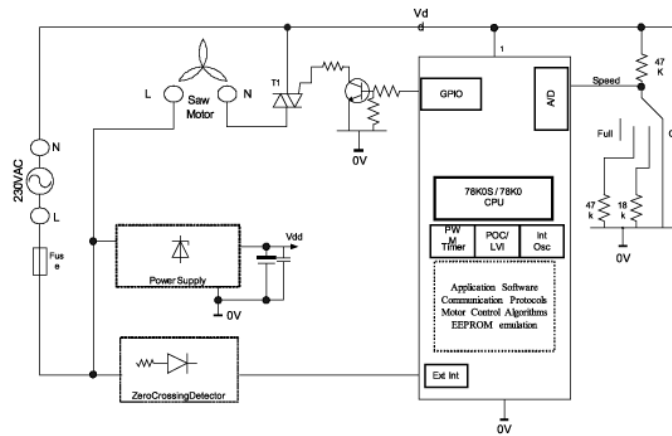
## Power Tools



## Electric Saw



# Motor Control Circuit

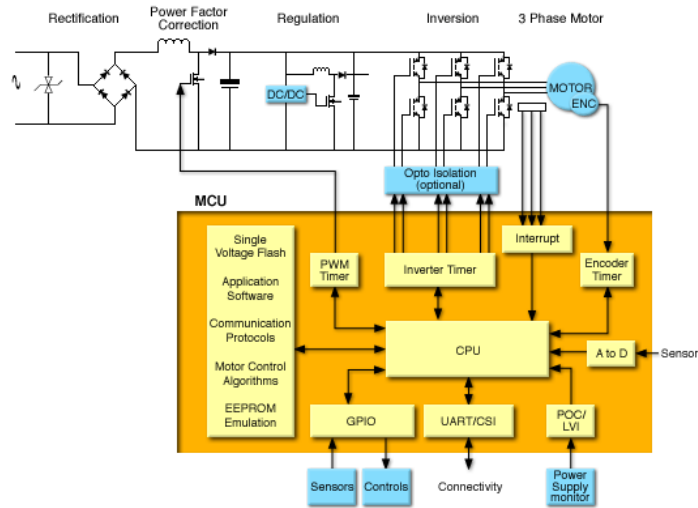


# Electric drill





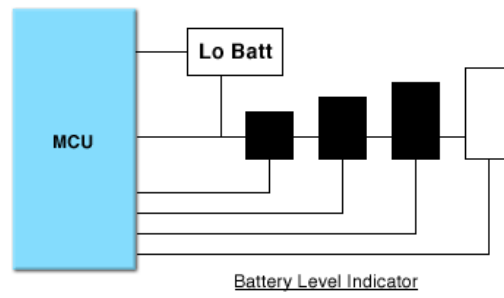
# Motor Control Circuit



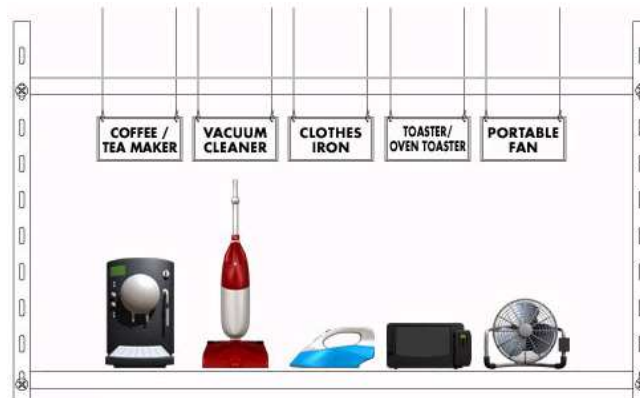
# Cordless Screw driver



## Battery Level Indicator



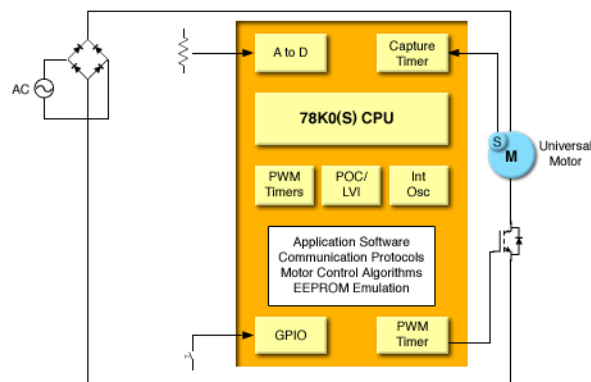
## Consumer Appliances



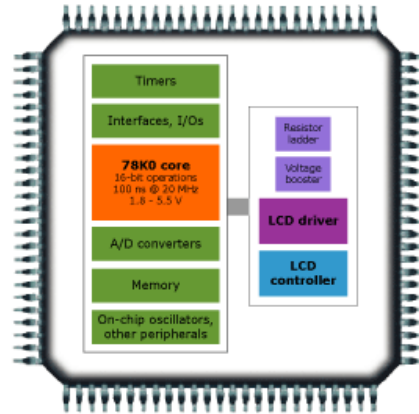
## Coffee/tea maker



## Pump control circuit



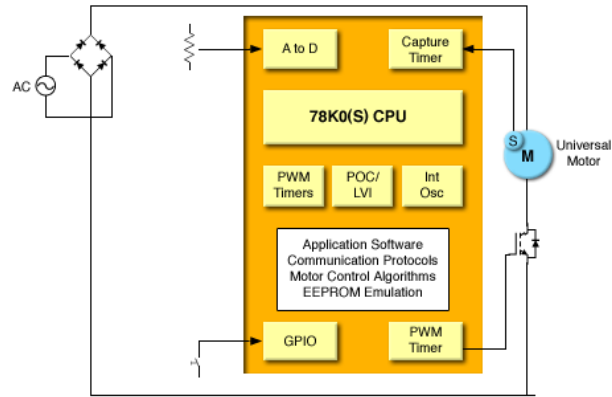
## Display Control



## Vacuum cleaner



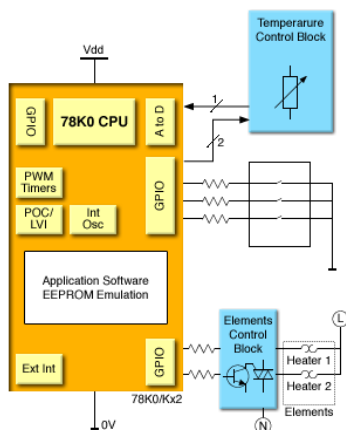
# Motor control Circuit



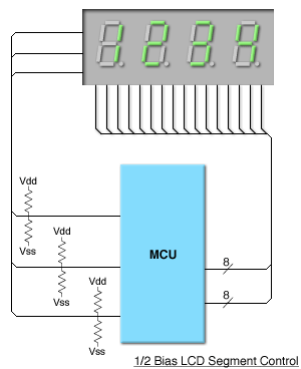
# Clothes Iron



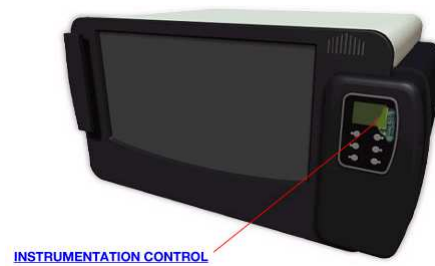
# Control Circuit



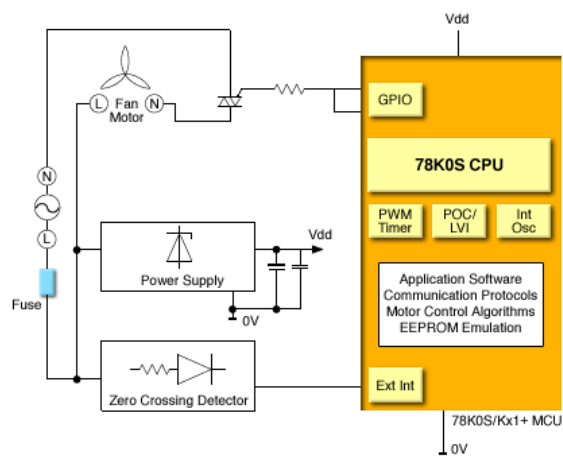
# LCD Control



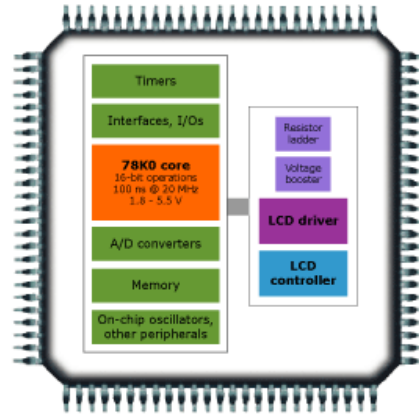
# Toaster/Oven



# Motor Control



## Display Control

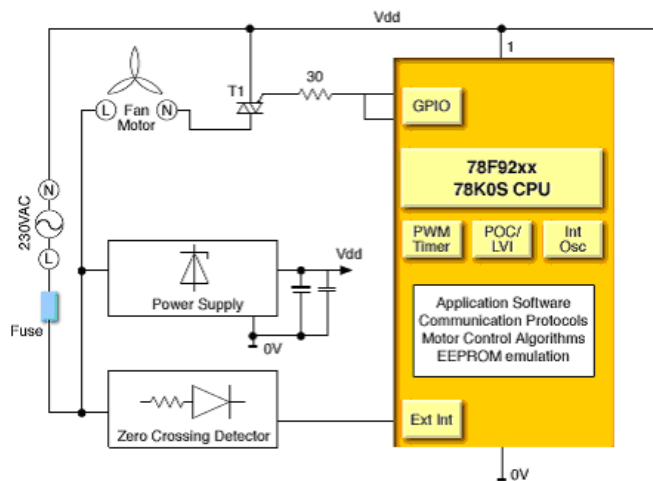


## Portable Fan



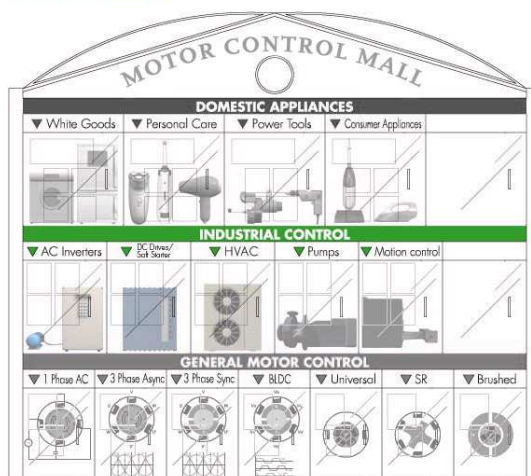


# Motor Control Circuit

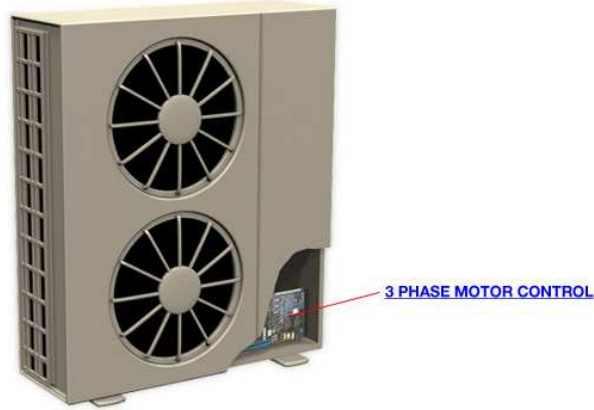


# Industrial Control

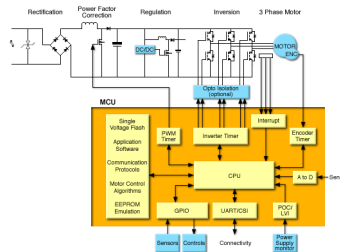
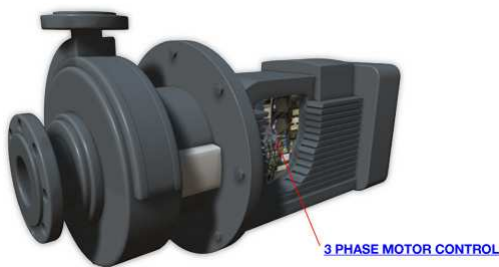
Industrial Control



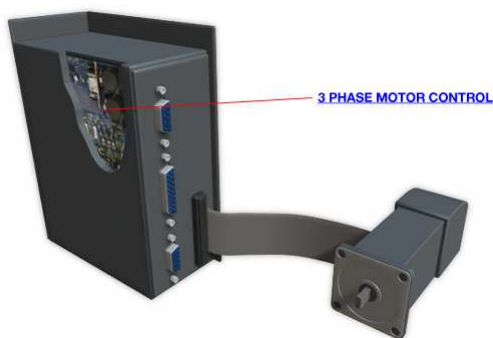
# Heating, Ventilating & Air Conditioning (HVAC)



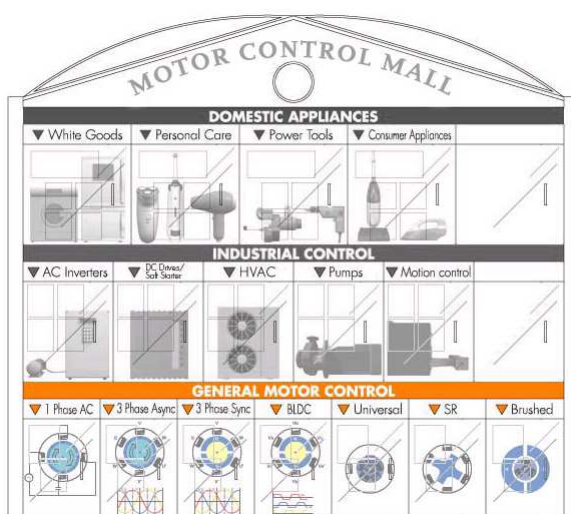
# Industrial Pump



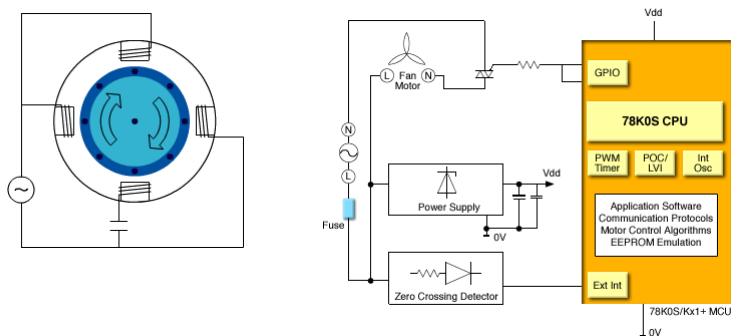
# Servo Control



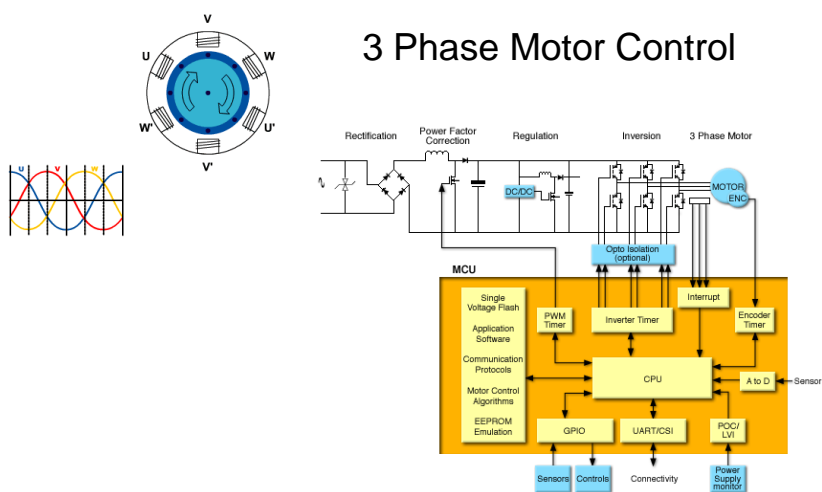
# General Motor Control



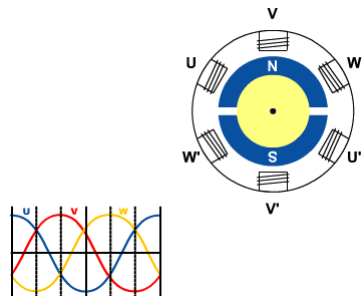
# Single Phase AC Motor



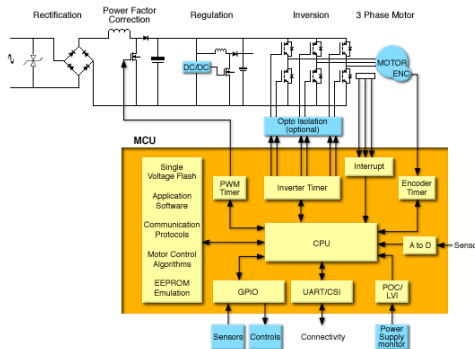
# 3 Phase Asynchronous Motor



# 3 Phase Synchronous AC Motor

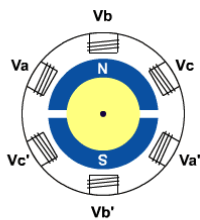


## 3 Phase Motor Control

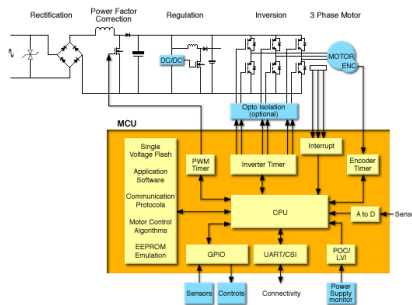


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# BrushLess DC (BLDC) motor

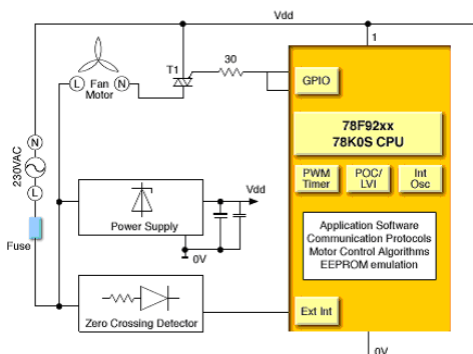
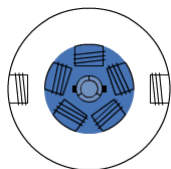


## 3 Phase Motor Control



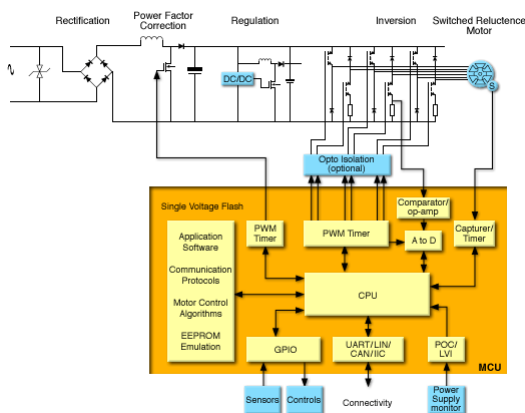
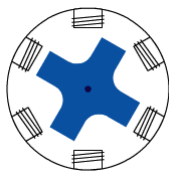
# Universal Motor

## Motor Control Circuit



# Switched Reluctance Motor

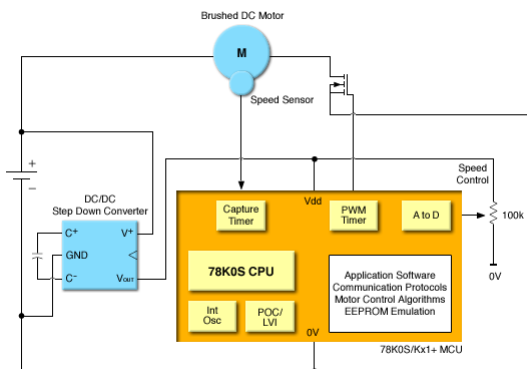
## Motor Control Circuit



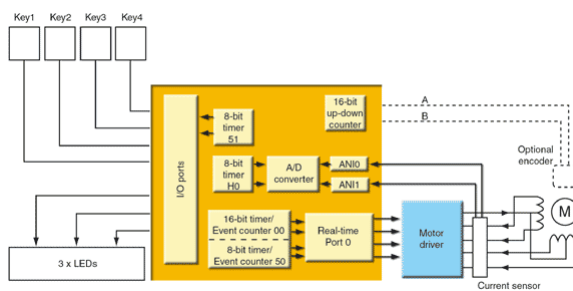
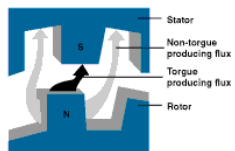
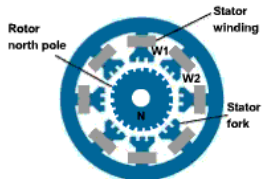
# Brushed DC Motor



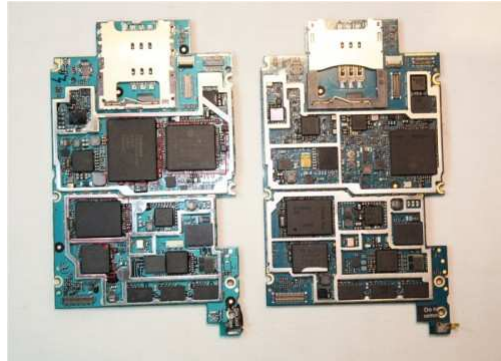
## Motor Control Circuit



# Stepper motor



## โทรศัพท์มือถือ



## Tablet

