**FREESCALE MICROCONTROLLERS**

Until 2004, these µCs were developed and marketed by [Motorola](http://en.wikipedia.org/wiki/Motorola), whose semiconductor division was spun off to establish Freescale.

* [8-bit](http://en.wikipedia.org/wiki/8-bit)
  + [68HC05](http://en.wikipedia.org/wiki/Freescale_68HC05) (CPU05)
  + [68HC08](http://en.wikipedia.org/wiki/Freescale_68HC08) (CPU08)
  + [68HC11](http://en.wikipedia.org/wiki/Motorola_68HC11) (CPU11)
* [16-bit](http://en.wikipedia.org/wiki/16-bit)
  + [68HC12](http://en.wikipedia.org/wiki/Freescale_68HC12) (CPU12)
  + [68HC16](http://en.wikipedia.org/wiki/Freescale_68HC16) (CPU16)
  + [Freescale DSP56800](http://en.wikipedia.org/wiki/Motorola_56000) ([DSPcontroller](http://en.wikipedia.org/wiki/Digital_Signal_Processor))
* [32-bit](http://en.wikipedia.org/wiki/32-bit)
  + [Freescale 683XX](http://en.wikipedia.org/wiki/Freescale_683XX)
  + [M·CORE](http://en.wikipedia.org/wiki/M%C2%B7CORE)
  + [MPC500](http://en.wikipedia.org/w/index.php?title=Motorola_MPC500&action=edit&redlink=1)
  + MPC 860 ([PowerQUICC](http://en.wikipedia.org/wiki/PowerQUICC)) - **POWER OPTIMISATION WITH ENHANCED RISC….**
  + MPC 8240/8250 ([PowerQUICC II](http://en.wikipedia.org/wiki/PowerQUICC))
  + MPC 8540/8555/8560 ([PowerQUICC III](http://en.wikipedia.org/wiki/PowerQUICC))

<http://en.wikipedia.org/wiki/List_of_common_microcontrollers> - contains all MCUs

The **MPC56xx** family are [PowerPC e200](http://en.wikipedia.org/wiki/PowerPC_e200) core based microcontrollers jointly developed by Freescale and [STMicroelectronics](http://en.wikipedia.org/wiki/STMicroelectronics). These microcontrollers are tailor-made for [automotive](http://en.wikipedia.org/wiki/Automotive) applications like power steering, fuel injection, display control, powertrain, active suspension, chassis control, anti-lock braking systems, and radar for adaptive cruise control. Freescale calls these processors *MPC56xx* and ST names them *SPC56x*.

* **MPC560xB/C** or **SPC560B/C** – Uses a single [e200z0](http://en.wikipedia.org/wiki/PowerPC_e200#e200z0) core at up to 64 MHz, up to 512 kB [Flash memory](http://en.wikipedia.org/wiki/Flash_memory), 64 kB [EEPROM](http://en.wikipedia.org/wiki/EEPROM), up to 48 kB RAM. Used for automotive body electronics applications.

<http://en.wikipedia.org/wiki/PowerPC_5000#MPC56xx>

**Freescale MPC5604/BC**

<http://en.wikipedia.org/wiki/MPC5xx>

<http://www.phxmicro.com/Training/Freescale/MPC565.html>

**Product Page** - <http://www.freescale.com/webapp/sps/site/prod_summary.jsp?code=MPC560xB>

* 32 bit built on *Power architecture(embedded).*
* 512 kB of on-chip data flash.
* 64 kB of flash withEEC
* 48 kB RAM
* **64 Mhz**

## Target Applications

* [Automotive](http://www.freescale.com/webapp/sps/site/homepage.jsp?code=IFATOATMTV)
  + [Heating Ventilation and Air Conditioning (HVAC)](http://www.freescale.com/webapp/sps/site/application.jsp?code=APLHVAC)
  + [Automotive Lighting](http://www.freescale.com/webapp/sps/site/application.jsp?code=APLATILIGHTING)
  + [Doors, Window Lift and Seat Control](http://www.freescale.com/webapp/sps/site/application.jsp?code=APLDOOR_WINDOW_SEAT)
  + Central Body Controllers
  + Gateway Controllers
  + Comfort Applications
  + [Body Control Module and Central Gateway](http://www.freescale.com/webapp/sps/site/application.jsp?code=APLBDCR5)
  + [Braking Systems](http://www.freescale.com/webapp/sps/site/application.jsp?code=APLABS)

**Power PC**

<http://en.wikipedia.org/wiki/List_of_PowerPC_processors#General-purpose_PowerPC_processors>

<http://www.freescale.com/webapp/sps/site/homepage.jsp?code=PCPPCP&tid=vanpowerarchitecture>

<http://www.power.org/home>

**OTHER**

<http://www.scribd.com/doc/38251516/reglas#archive>

<http://wenku.baidu.com/view/dc38d1e69b89680203d825a7.html>

<http://wenku.baidu.com/view/63aaf3bec77da26925c5b06a.html>

<http://www.timesys.com/>