

8-bit Processors

8051 Pipelined High Performance*

64kB of linear CODE/ 8MB of banked code

- DP8051CPU** processor CPU
- DP8051** processor typical configuration
- DP8051XP** processor with extended peripherals
- DP80C51** processor 8051 pins compatible

80390 Pipelined High Performance*

8MB of linear code, 16 MB of XDATA

- DP80390CPU** processor CPU
- DP80390** processor typical configuration
- DP80390XP** processor with extended peripherals

8051 Tiny Area High Performance*

64kB of linear CODE/ 8MB of banked code

- DT8051** processor typical configuration

USB Platforms

Ready to use standard USB interfaces – plug & play

- MS** Mass Storage
- HID** Human Interface Device
- Audio** Audio Stream

PIC Improved Performance

RISC microcontrollers

- DFPIC165X** 8-bit RISC
- DFPIC1655X*** 8-bit RISC
- DRPIC1655X*** single cycle 8-bit RISC
- DRPIC166X*** single cycle 8-bit RISC

68xx Legacy Architecture*

Cycle compatible replacements of legacy chips

- D68HC11E** processor E configuration
- D68HC11KW1** processor KW1 configuration
- D68HC11F1** processor F1 configuration
- D68HC11K4** processor K4 configuration
- D6802** processor CPU
- D6803** processor standard configuration
- D68HC08** processor standard configuration

68xx Fast Architecture*

Improved performance products

- DF6805** processor standard configuration
- DF6808** processor standard configuration
- DF6811** processor typical configuration

16/32-bit Processors



* including DoCD™ - DCD on Chip Debugger

CISC

- D68000** 16/32-bit microprocessor

Floating Point IEEE-754 Arithmetic Units

Pipelined Modules

- DFPADD** floating point adder
- DFPMUL** floating point multiplier
- DFPDIV** floating point divider
- DFPSQRT** floating point square root
- DFPCOMP** floating point comparator
- DFP2INT** floating point to integer converter
- DINT2FP** integer to floating point converter

Coprocessors

- DFPAU** floating point arithmetic unit
- DFPMU** floating point coprocessor
- DFPAU-DP** floating point arithmetic unit – Double Precision
- DFPMU-DP** floating point coprocessor – Double Precision
- DCORDIC** fixed point CORDIC processor

Peripherals

USB 2.0

DUSB2 USB 2.0 device configurable,
fully compatible with Fast and
High Speed modes

I2C Bus Controllers

DI2CM master
DI2CS slave
DI2CSB slave base version
DI2CMS master/slave

Networking

DMAC 10/100 Mb Media Access
Controller

SPI - Serial Peripheral Interface

DSPI serial peripheral interface
master/slave
DSPI_FIFO serial peripheral interface
master/slave with FIFO
DSPIS serial peripheral interface slave

USB 2.0 Configurable Platforms

Audio Platform
Mass Storage
Human Interface Device

UARTs

D16450 UART
D16550 UART with FIFO
D16750 UART with FIFO
D16752 dual UART with FIFO
D16950 UART with FIFO

CAN & LIN Controllers

DCAN Configurable CAN Bus Controller
DLIN Configurable LIN Bus Controller

Others

D8254 programmable interval timer
D8255 programmable peripheral interface
D8259 programmable interrupt controller