

Summary of Useful Software Modules

Type	Function	Different input functions
<u>Arithmetic:</u> COUNTER	Change of output bits according to count.	Count enable, Clock enable Modulus counting Synchronous clear and load Up/Down counting Can use various logical operations: <, >, =, ...
COMPARE	Compare two numbers	
ADD	Add two numbers	
MULT	Multiply two numbers	
DIVIDE	Divide two numbers	
<u>Gates:</u> CONSTANT	Defines a constant	
MUX	Multiplexes (chooses one output from several inputs)	
DECODE	Output bit high when input bus = decode number	
(truth table)	Truth table to define logical operation (text code)	
<u>Storage:</u> FF	Bussed D flip-flop	Enable, clear, synchronous load functions
SYNCRAM	Memory storage	ROM (read only memory) RAM (read and write memory) DPRAM (dual port RAM)
SHIFTREG	Shift register, shifts bits in storage register	

Boldface type indicates most commonly used functions.