

ALU

Input signals

A - 1st input to ALU B - 2nd input to ALU ALUControl - select ALU function | Value | Function | | ----- | ----- | |
0000 | Add | | 0001 | Subtract | | 0010 | Multiply | | 0011 | Divide | | 0100 | Shift right | | 0101 | Shift left | | 0110 |
AND | | 0111 | OR | | 1000 | XOR | | 1001 | NOT | | 1010 | None | | 1011 | None | | 1100 | None | | 1101 | None | |
1110 | None | | 1111 | None |

Output signals