18LA8-I Basic instruction set

|  |  |  |  |
| --- | --- | --- | --- |
| Name | annotation | funct | opcode |
| and | R[rd]=R[rs1]&&R[rs2] | bx00 | bx00 |
| andi | R[rd]=R[rs1]&&imm | bx00 | bx01 |
| or | R[rd]=R[rs1]||R[rs2] | bx01 | bx00 |
| ori | R[rd]=R[rs1]||imm | bx01 | bx01 |
| xor | R[rd]=R[rs1]^R[rs2] | bx10 | bx00 |
| xori | R[rd]=R[rs1]^imm | bx10 | bx01 |
| not | R[rd]=!R[rs1] | bx11 | bx01 |
|  |  |  |  |
| add | R[rd]=R[rs1] | bx00 | bx10 |
| addi | R[rd]=imm | bx01 | bx10 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 17 13 | 12 10 | 9 7 | 6 4 | 3 2 | 1 0 | opcode |
| imm | rs2 | rs1 | rd | funct | opcode | bx00 |
| imm | | rs1 | rd | funct | opcode | bx01~11 |