|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 指令 | 指令含义 |  | 取指周期 | 间址周期 | 执行周期 | 中断周期 |
| CLA | 清ACC |  | A12 | NONE | A10 | A2 or NONE |
| COM | ACC取反 | NONE | A3 |
| SAR | 算术右移 | NONE | A5 |
| CSL | 循环左移 | NONE | A4 |
| ADD X | 加法指令 | A1 or NONE | A8 |
| STA X | 存数指令 | A1 or NONE | A11 |
| LDA X | 取数指令 | A1 or NONE | A7 |
| JMP | 无条件转移 | A1 | A6 |
| BAN | 条件转移,负则转 | A1 | A9 |

|  |  |  |  |
| --- | --- | --- | --- |
| A1 | Ad(IR) 🡪 MAR  1🡪R  M(MAR)🡪MDR  MDR 🡪Ad(IR) | A2 | (SP)-1 🡪 MAR  1🡪W  PC🡪MDR  MDR 🡪M(MAR)  向量地址🡪PC  0🡪EINT |
| A3 | ~ACC🡪ACC | A4 | R(ACC)🡪L(ACC), ACC0 🡪 ACCn |
| A5 | L(ACC)🡪R(ACC), ACC0 🡪 ACC0 | A6 | Ad(IR) 🡪 PC |
| A7 | Ad(IR) 🡪 MAR  1🡪R  M(MAR)🡪MDR  MDR 🡪ACC | A8 | Ad(IR) 🡪 MAR  1🡪R  M(MAR)🡪MDR  (ACC)+(MDR) 🡪ACC |
| A9 | A0\*Ad(IR)+(~A0)\*(PC) 🡪 PC | A10 | 0🡪ACC |
| A11 | Ad(IR) 🡪 MAR  1🡪W  ACC🡪MDR  MDR 🡪M(MAR) | A12 | PC🡪MAR🡪地址线  1🡪R  M(MAR)🡪MDR  OP(IR)🡪CU  (PC)+1🡪PC |