| state | SerIn | uc3co | finish_signal | uc3r | uc3e | sre | error_flag | valid_output | uc9e | uc9l | next state |
|---|---|---|---|---|---|---|---|---|---|---|---|
| start | 1 | x | x | 1 | 0 | 0 | 0 | 0 | 0 | 0 | start |
| start | 0 | x | x | 1 | 0 | 0 | 0 | 0 | 0 | 0 | get info |
| get info | x | 1 | x | 0 | 1 | 1 | 0 | 0 | 0 | 0 | get first data |
| get info | x | 0 | x | 0 | 1 | 1 | 0 | 0 | 0 | 0 | get info |
| get first data | x | x | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | finish |
| get first data | x | x | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | get data |
| get data | x | x | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | finish |
| get data | x | x | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | get data |
| finish | 1 | x | x | 0 | 0 | 0 | 0 | 0 | 0 | 0 | start |
| finish | 0 | x | x | 0 | 0 | 0 | 0 | 0 | 0 | 0 | error |
| error | 1 | x | x | 0 | 0 | 0 | 1 | 0 | 0 | 0 | start |
| error | 0 | x | x | 0 | 0 | 0 | 1 | 0 | 0 | 0 | error |

start = 000                    get first data = 101                    finish = 011

get info = 001                 get data = 010                          error = 100