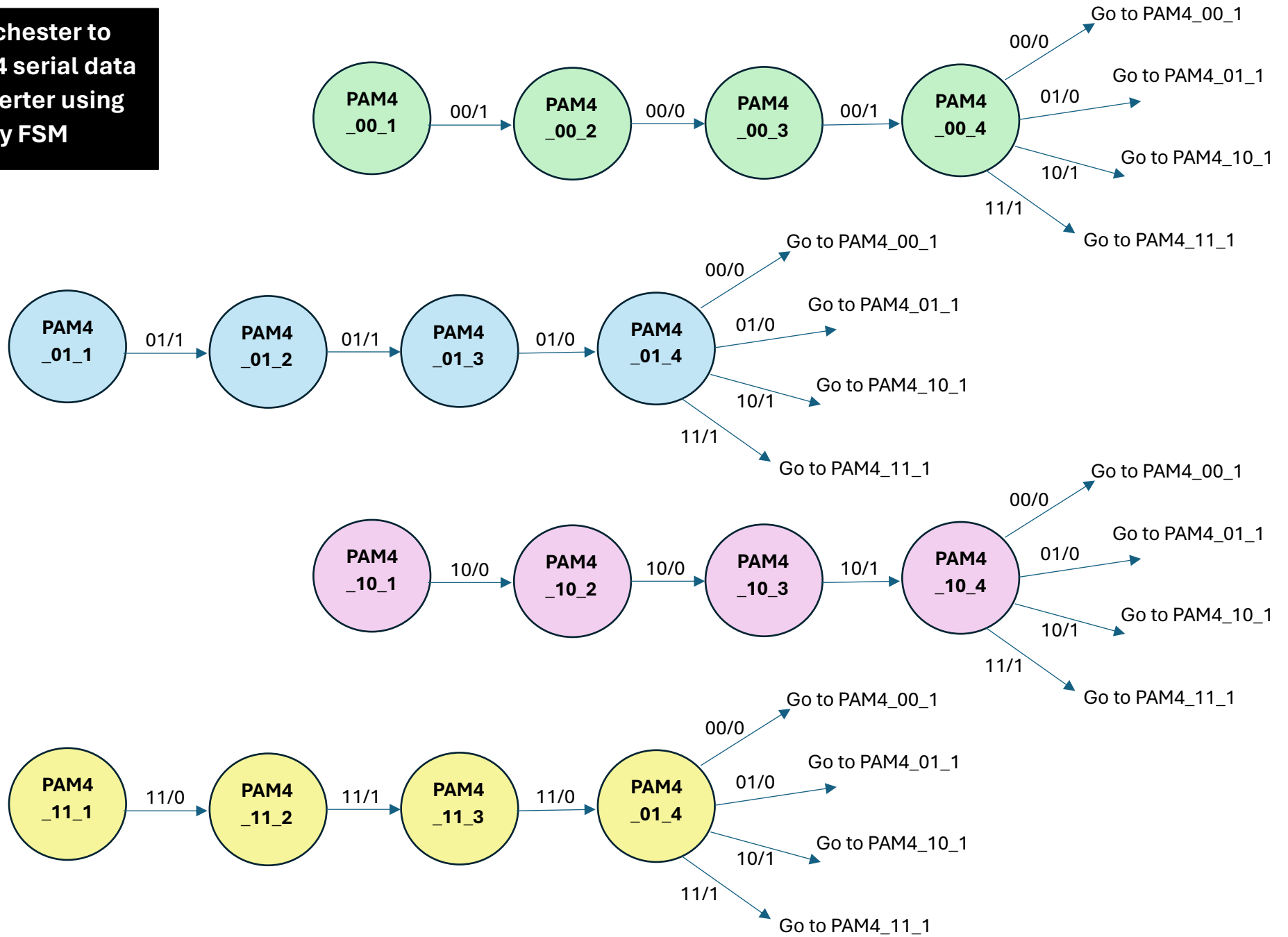


**Manchester to
PAM4 serial data
converter using
Mealy FSM**



A few things to consider:

When converting PAM4 to Manchester, it is expected that the PAM4 input (2bits) will remain constant over 4 clock cycles. During the 4 clock cycles the Manchester code will be generated bit-by-bit and sent to the output of the module.

00 = 01010 01 = 0110 10 = 1001 11 = 1010