Failure Mode	Failure Effect	Severity	Potential Cause	Occurrence	Controls	Detection	Risk Priority Number
Non-matching baud rate	Garbage data	6	Setting different baud rates for PC and kl25z	3	Manual QA	1	18
Reentrant UART IRQ Handler	Undefined race conditions	3	Not setting a critical section in the IRQ handler	7	Code review	9	189
Buffer overflow	Data dropped on the floor	2	Sending too many characters before they can be serviced	8	Unit tests	7	112
Don't enable UART Receiver and Transmitter	Communication hangs	10	Not setting the UART receiver and transmitter in the init function	3	Manual QA	1	30
Not enabling UART port clock gating	Communication hangs	10	Not enabling UART port clock gating in the init function	2	Manual QA	1	20
Not setting UART clock source	Communication hangs	10	Not setting the UART clock source in the init function	3	Manual QA	1	30