USB3 drives fail to enumerate at temperatures below 0ºC

Symptom: USB3 Flash drives may fail to enumerate at temperatures below 0ºC.

Root Cause: WINSYSTEMS identified intermittent enumeration of some USB3 Flash drives at temperatures below 0C. The behavior was confirmed on other i.MX8M reference platforms.

Other USB3 devices were tested and passed full -40 to +85C operation. Appears to be limited to Flash enumeration.

Resolution: USB 2.0, MicroSD and eMMC Flash solutions operate over full -40ºC to +85ºC temperature range.