### Devices Affected

8A3xxxx devices running firmware version 4.8.7 loaded from internal ROM, or loaded into RAM from an EEPROM or by a host processor.

### Issue BRMBXR-3256 Description

A DPLL configured as a GPIO_Slave will use hitless reference switching when it is triggered by GPIO to switch from Master to Slave. This behavior can cause a phase difference between the output of the master and the slave timing devices.

#### Work-Around

There are two options:

1. After a DPLL is triggered to switch from Master mode to Slave mode by a GPIO, use the DPLL_HS_TIE_RESET control bit to reset the hitless switching time interval error and align the DPLL output with its input reference.

2. Change from Master mode to Slave mode using the DPLL_REF_MODE control register.

### Issue BRMBXR-3301 Description

PWM receivers configured for an external channel cannot receive all 128 bytes of payload if the carrier frequency is lower than 50kHz.

#### Work-Around

Ensure the carrier frequency is ≥ 50kHz.

### Issue BRMBXR-3302 Description

If the OTP or EEPROM configuration has OUT_SYNC_DISABLE bit set to “1” then the output clock might not become active for a random interval of up to 8 seconds after power on reset. This issue does not happen after a warm reset.

#### Work-Around

Set the OUT_SYNC_DISABLE bit to “0” in OTP and EEPROM configurations.
Issue BRMBXR-3427 Description
For every DPLL except the System DPLL:

If:

• The host makes any of the four configuration changes listed below to a DPLL.
• And, an already qualified reference has been selected for the DPLL.

Then:

• There is a chance that the DPLL feedback divider will not be properly aligned with the DPLL master divider. This situation will cause a constant phase offset between the DPLL input reference and the DPLL output clocks. The constant phase offset can exceed the Input - Output Alignment Variation ($t_{ALIGN}$) datasheet limits.

The following are the applicable DPLL configuration changes:

1.  DPLL_n.DPLL_MODE (trigger register) is written, after either of the following changes:
   a. GLOBAL_SYNC_EN is changed from 0 to 1.
   b. Source of the feedback clock for the DPLL is changed.
2.  DPLL_CTRL_n.DPLL_FOD_FREQ register is written.
3.  DPLL_CTRL_n.DPLL_MASTER_DIV register is written.
4.  DPLL_CTRL_n.DPLL_DCD_FILTER_CNFG is register is written.

This issue will not occur if the DPLL configuration changes are due to configurations loaded from EEPROM or OTP.

Work-Around

After the host executes one of the four configuration changes listed above, the host should:

1.  Wait at least 10ms.
2.  Trigger the input module for the currently selected reference by writing to INPUT_n.IN_MODE.

This work-around will cause the DPLL to properly align the feedback divider and the master divider and the DPLL will meet the Input - Output Alignment Variation ($t_{ALIGN}$) datasheet limits.