

UCD9220 Data Sheet Errata

These are the errata for the UCD9220 48-pin device.

Erratum #1

Address arbitration for a PMBus Alert Response event may not work when there is more than one device on the bus. Specifically, if two or more devices report an alert (via the PMBus-Alert signal) to the host and the host issues an Alert Response Address command (a Receive Byte command with address 12), the device with the lower PMBus address will win the arbitration and its address will be the one received by the host. The device with the higher PMBus address will be unaware that it lost arbitration, and the next command to the device with the higher PMBus address will be ignored. If the host sends a third Alert Response Address command and this device wins the arbitration, then the host will receive the higher address in response.

A simple workaround for this issue is to follow any Alert Response Address command with a PMBus STATUS_WORD command using the address that was received in the Alert Response message. Since this address will not be the address for the device that lost arbitration, it will clear the PMBus hardware for that device, allowing it to respond to the next Alert Response Address request on the PMBus.

Erratum #2

The maximum number of sequencing control inputs available for the GPIO_SEQ_CONFIG command is 2 instead of 4. Refer to the GPIO_SEQ_CONFIG command in the UCD92xx PMBus Command Reference ([SLUU337](#)).

Erratum #3

A voltage offset may be introduced to the output if the AFE gain is different between CLA banks. The EADC_TRIM PMBus command was created so that the user could minimize this offset between two AFE gain settings. See the UCD92xx PMBus Command Reference ([SLUU337](#)) for more information on the EADC_TRIM command.

Erratum #4

When the AFE gain setting is different between CLA banks, there is a chance that the wrong AFE gain setting will be used to calculate the error between the reference voltage (V_{ref}) and the sensed voltage at the EAP/EAN inputs. In normal operation the error is near zero and this does not affect the system. When there is a transient that causes the difference between the reference voltage and the sensed voltage to be large, the calculated error voltage may be larger or smaller than the actual error if the wrong AFE gain is used in the calculation.

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