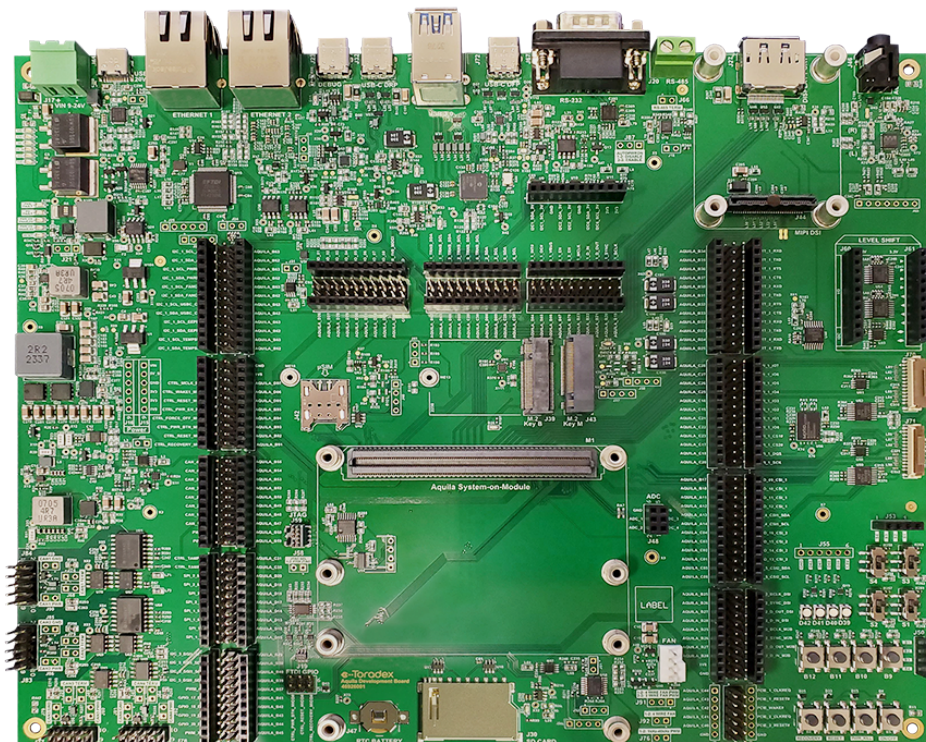


Aquila Development Board

HW Errata



Revision History

Document Revisions

Date	Doc. Revision	Product Version	Changes
28-Nov-2024	Rev. 0.1	V1.2	Initial documentation Section 1 : Added HAR-11860 Section 2 : Added HAR-11844 Section 3 : Added HAR-11746 Section 4 : Added HAR-11139 Section 5 : Added HAR-11136

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1 Errata #1: HAR-11860 – DisplayPort DPCD/EDID Read May Not Work with Some Hardware

Affected version:

Aquila Development Board V1.2

Fixed in:

Aquila Development Board V1.3

1.1 Customer Impact

Customers may encounter issues using the DisplayPort interface with devices that rely on the AUX bus, such as certain converters.

1.2 Description

The DisplayPort driver encounters issues reading the DPCD/EDID over the AUX bus when used with specific hardware, such as DisplayPort dummies, HDMI-to-DisplayPort converters, and potentially other devices. As a result, the device fails to function properly with the DisplayPort interface.

1.3 Workaround

Using standard DisplayPort cables without any converters should function correctly.

2 Errata #2: HAR-11844 – Hissing noise coming from the DB power supply under high load

Affected version:

Aquila Development Board V1.2

Fixed in:

Aquila Development Board V1.3

2.1 Customer Impact

An audible hissing noise may be observed from the Aquila Development Board's power supply under high load, without any meaningful impact on board functionality. This behavior does not indicate any degradation in power supply performance.

2.2 Description

Under high load, an audible hissing noise may be heard from the power supply, linked to its operational switching frequency. This occurs when powering the board through either the USB-C power delivery or the terminal block.

2.3 Workaround

None

3 Errata #3: HAR-11746 – Left and Right Channels Swapped on Audio Jack

Affected version:

Aquila Development Board V1.2

Fixed in:

Aquila Development Board V1.3

3.1 Customer Impact

The left and right channel audio signals will be delivered inverted using the onboard audio jack.

3.2 Description

The audio jack on the board has the left and right channels swapped. Both audio signals are delivered correctly, but their positions are reversed.

3.3 Workaround

None

4 Errata #4: HAR-11139 – The RS485 interface is not functional

Affected version:

Aquila Development Board V1.2

Fixed in:

Aquila Development Board V1.3

4.1 Customer Impact

Customers can not use the onboard RS485 interface.

4.2 Description

The Schmitt-trigger inverter connected to the UART_2 interface is improperly routed, rendering the onboard RS485 interface non-functional.

4.3 Workaround

Use the jumper section to access the UART_2 interface and connect it to an external RS485 converter circuit.

5 Errata #5: HAR-11136 – Silkscreen text is swapped on jumper J19

Affected version:

Aquila Development Board V1.2

Fixed in:

Aquila Development Board V1.3

5.1 Customer Impact

Customers should not rely on the silkscreen text for the pinout description of jumper array J19.

5.2 Description

The labels next to the jumper array J19 are incorrect and do not correspond to their actual functions.

5.3 Workaround

The jumper array J19 pin numbering is accurate and should be referenced in conjunction with the schematic to properly setup the board.