

4REA4 Controller V1.52 – May 2024

This document forms part of an update package which includes software installers, firmware and other reference documents.

New Features

- 4REA4 can now be used with SD-Rack ESS type 32 BIT DAC and ADC cards. PLEASE NOTE that a maximum of 2 x 32 BIT ADC cards can be installed in a 4REA4 at the same time. DO NOT attempt to install more than 2 of this card type.
- Rack parameter control now available for DQ Racks in addition to A168D and A164D

• Compatibility with DMI-Dante64@96 with IP Zynq HC

The DMI Base card (the DiGiCo side) requires firmware version V105 & FPGA 27/2/23 to work. These versions of firmware are bundled in the 4REA4 V1.52 Updater. Cards shipped from the factory will have a sticker on the PCB with their originally installed firmware version.

The Dante firmware for the new module is 4.2.4.5 (4.2.4 DiGiCo Build). All versions are currently compatible with each other. This is not guaranteed in the future. The DMI card and its Firmware will have a new identity suffixed with a "z" in Dante controller. (see bundled Tech Note TN580)



- Compatibility with A168, A168D, A164 & A164D IO boxes equipped with Cirrus converters.
- There is a new APAD app V1.50.10 available from the App Store which is compatible with this version.



For ESS Type ADC cards: This card type requires V1.5 of card firmware.

- First, switch off and disconnect the 4REA4 from its power source.
- Remove all of the Local IO cards from the 4REA4 by unscrewing the retaining bolts and carefully pulling the cards from the unit.
- Connect a USB A>B cable to the ESS ADC card's USB port.
- Replace the card in the 4REA4 and be careful that the USB cable does not get trapped.
- Switch on the 4REA4 unit.



***DiGiCo**





- Unzip DiGiCo Q-Rack Update Utility_V1.8.zip from the install package and run DiGiCo Q-Rack Update Utility_V1.8\RackApp\DiGiCo Q-Rack Update Utility.exe
- Click "Connect To Rack" and a message should be displayed indicating the card type and its current firmware version.



- Click "Select Firmware File" and choose the file named ADC32ESS.bin click the "Open" button.
- Check that the button on the left of the screen is labelled "Update to V1.5" and then click this button. The update process will start – it will take a few minutes and then notify you when complete.



- You can now switch off the 4REA4, remove the card and disconnect the USB cable.
- Repeat the process for any other cards of the same type.
- When all cards are updated, switch off the 4REA4, reinstall all required cards and repower.

For ESS Type DAC cards:

This card type requires V35 of card firmware and an FPGA dated 22/3/24.

Please refer to the document named "Updating P16336 Firmware to v35.pdf" bundled in this package.

