

Digi RCM3365 (20-101-1051) Revisions

There have been overlapping changes to RCM3365 hardware, with some changes happening within a single revision.

There is a small label on the Ethernet connector with a 2D barcode, the product's part number (20-101-1051) and a revision letter.

During production of Revision E, we replaced the ASIX AX88796LF Ethernet controller with what we thought was a drop-in compatible AX88796ALF. We found increased current consumption with the new part, and so started labelling those boards as Revision F.

We then received reports of poor Ethernet performance, and reverted to shipping Revision E of the product, with the AX88796LF controller.

Shortly after, we switched the flash IC from 45ns (SST39LF040-45-4C-WHE) to 55ns (SST39LF040-55-4C-WHE) memory and updated to Revision G. We have not had any reports of issues caused by this change.

We eventually determined that the cause of the Ethernet failures with the AX88796ALF chip were due to the PCB layout. So, we fixed the layout and started shipping with the AX88796ALF chip as Revision H. The new PCB was green instead of red.

Unfortunately, due to a manufacturing error, some Revision H product used the old red PCBs.

If customers have an RCM3365 with a red PCB (likely labelled Revision E, F, or H) with an ASIX AX88796ALF controller, they should request an RMA to exchange for updated product.



There wasn't a Revision I – Digi skips that letter in its revisioning.

Revision J didn't have any hardware changes, it was an administrative update of product packaging and labeling.

Revision K removed the unavailable xD socket and its support circuitry. The xD media standard has been obsolete since 2010.

Revision L was another labelling update.

Please see the next page for photos showing various revisions of boards.

	<p>Backside of original, red PCB, showing unused component footprint in upper-left.</p> <p>Boards that look like this, with an ASIX AX88796ALF on the front of the board, will experience poor Ethernet performance.</p>
	<p>Updated, green PCB without the unused component footprint.</p> <p>These boards are compatible with the ASIX AX88796ALF.</p>

This image shows the front and back of current Revision L. The front of the PCB no longer has a metal shield for the xD socket. It also has an ASIX AX88796ALF Ethernet controller and is missing the unused component footprint on the back.

