

Profinet Firmware update Release notes

March 2024

In case of PROFINET products such as RIO3-PNA & PNAL their firmware upgrade is recommended like the new revision lists here due to below reasons.

1. Issue

- Communication error and watchdog error
- This issue can happen frequently if the network is complex or has lots of ethernet frames.

2. Cause

- Due to lack of the performance to handle the frame, the communication error can happen.
- Due to the processing optimization, the performance of CPU processing time can be slow.

3. Solution

- EtherNet buffer size up and Optimization and improvement of processing time.

4. Reason for the update

- The enough internal memory is required not to miss any necessary frame.
- The processing time can be improved by optimizing the CPU performance to increase processing time.

5. Improvement

- Enhanced Internal Buffer Memory: Increases the capacity to manage data flow, reducing the risk of overload and errors.
- Improved Processing Time: Optimizes the handling of communication tasks, minimizing the chance of Watchdog errors and communication disruptions.

Module List	Affected Revision	New Revision
RIO3-PNA	1.010	1.011

Module List	Old HW Rev 1.00		New HW Rev 2.00	
	Affected Revision	New Revision	Affected Revision	New Revision
RIO3-PNAL	1.007	1.008	2.000	2.001

November 2023

When operating RIO3-PNA & PNAL with Old FW versions without the Power Reset (power off – on) for more than 3 months, communication stops between Profinet modules and the expansion IO module.

Module List	Old FW Revision	New FW Revision
RIO3-PNA	1.009	1.010

Module List	Old HW Rev 1.00		New HW Rev 2.00	
	Old FW Revision	New FW Revision	Old FW Revision	New FW Revision
RIO3-PNAL	1.006	1.007	-	2.000