

## Release Notes for PIO (V3)

Rev 3.007 (build 20241209)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Improvement	Webserver Login	Changed the Webserver Login Functionality to a Menu Item.	*	*
Improvement	CPU Usage Monitoring	Added a List for Monitoring Task Usage and Remaining Heap Memory on the Webserver.	*	*
Improvement	Heap Memory	Increased the Heap Memory Size to improve performance. (8MB → 16MB)	*	*
Improvement	ExternalFeatures library	Added IP Change Feature to an External Library.	*	*
Improvement	RTOS Task Stack Size	Increased Stack Size to Prevent Stack Overflow and Enhance RTOS Task Stability.	*	*
Bug fix	Assertion Error in Ethernet Processing	Resolved an issue that caused an assertion error after 2,147,483,648 (2 <sup>31</sup> ) Received good Unicast frames or Transmitted good frames due to a software bug in Ethernet processing.	*	*

Rev 3.006 (build 20240105)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Improvement	I/O scan interval adjustment	The option to adjust the IO scan interval has been added.	*	*
Improvement	Webserver Login	The ability to activate login functionality upon connecting to the web server has been added.	*	*
Bug fix	WebServer Output Slot Data Issue	Fixed the error of inconsistent content between the output slot data on the web server and actual values.	*	*
Bug fix	Boot Application Issue	In the offline state, the issue of the program not functioning when inserting files generated by the 'Creative Boot Application' has been resolved.	*	*

Rev 3.005 (build 20231023)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Improvement	Modbus data bit configuration	Added Modbus 7-bit Data Configuration Option	*	*
Bug fix	Boot Failure Issue	Resolved the possibility of boot failure due to Crystal malfunction.	*	*

Rev 3.004 (build 20230808)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Bug fix	64-bit Variable Issue	Resolved the issue of hard faults occurring when using a 64-bit variable.	*	*
Bug fix	Boot Failure Issue	Resolved potential Boot failure from EEPROM Access conflicts during initial power-up.	*	*
Improvement	New Modbus Reset Command	Added a new reset command via the Modbus protocol. (Refer to the 'Restart Communication Option' in the specification.)	*	*
Bug fix	Reset Issue via Modbus TCP	Reset command via Modbus TCP not functioning correctly under certain conditions.	*	*

Rev 3.003 (build 20230523)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Bug fix	File creation error in visu folder	Resolved the issue of file creation and download failures in the visu folder when utilizing certain functionalities that require additional files (e.g., webvisu user management).	*	
Bug fix	Event buffer issue on webvisu	The event buffer bug in Webvisu has been fixed. When repeatedly using functionalities that rely on the Event Buffer (e.g., Mouse move on button) for an extended period, Webvisu may become unresponsive or freeze.	*	
Bug fix	Web server content correction	Corrected content and typos in the web server.	*	*

Rev 3.002 (build 20230111)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Bug fix	Persistent retain Issue	The issue of the non-functionality of the entire persistent retain area has been resolved. ※ Reduced total retain size and modified specification.	*	
Improvement	User Management	Support for User Management with limited usage has been added.	*	*
Improvement	Factory Reset	The factory reset process has been modified to prevent battery influence.	*	*
Bug fix	OPC-UA array variables	OPC UA array variables bug has been fixed.	*	*
Bug fix & Improvement	Nand flash control timing adjustment	Adjustments were made sufficiently to control Nand Flash timing because some products require additional hardware margin.	*	*

Rev 3.001 (build 20220825)

Type	Subject	Descriptions	Model	
			RIO3-CP3MBT	RIO3-CP2MBTL
Bug fix & Improvement	PLC program disappeared Issue	Functions related to Nand Flash that were causing problems have been improved with the addition of an ECC(Error Correction Code) and improved bad block management.	*	*
Improvement	IEC Task Jitter	Improved to reduce IEC Task Jitter.	*	*
Improvement	ExternalFeatures library	Added a library to support external features, including accessing special registers and IO parameters and checking the last battery status.	*	*
Bug fix	Recipe Manager	Fixed the bug in recipe manager file creation when multiple files are made.	*	*
Improvement	Default Modbus Slave Disable option	Added an option to enable or disable the use of the Default Modbus Slave, which runs in the background.	*	*