



MicroNet XT Control Firmware Updates

Product Change

Woodward implemented firmware updates to the 5466-1300 CPU, 5466-1324 CPU, 5466-1303 FlexAIO, and 5466-1304 DIO 32/16 utilized in the MicroNet XT control system. These modifications were necessary to support CPU redundancy and the integration of expansion chassis capability.

Description

To maintain cross compatibility among different MicroNet XT CPU revisions, especially for spare parts and laboratory units that might be interchanged between simplex and redundant system configurations, Woodward recommends updating the firmware on all I/O modules and Rev C and earlier CPU units to the latest available version. This approach ensures seamless interchangeability across various hardware revisions. The current versions at the time of release for this product change notification are Rev D for firmware 5418-4950 and Version 1.1.1 for GAP Coder (part number 9927-9001 Rev B).

Affected Units

MicroNet XT Modules:

- 5466-1300 Rev “-“
- 5466-1300 Rev A
- 5466-1300 Rev B
- 5466-1300 Rev C
- 5466-1324 Rev “-“
- 5466-1303 Rev “-“
- 5466-1303 Rev A
- 5466-1304 Rev “-“

Customer Action

To carry out the necessary updates for the modules, users should first recompile their GAP application utilizing GAP coder version 1.1.1 identified as 9927-9001 Rev B. Next, obtain the installation file for the latest firmware (Master PROG), which is identified as 5418-4950 Rev D. The Coder installation and Master Prog files can be requested from your assigned Woodward representative.

After receiving the Master PROG file, it is essential to adhere closely to the step-by-step instructions provided in the 35219 MicroNet XT Volume 3: Software Product Manual and the release notes accompanying the Master Prog firmware. These documents contain detailed guidance to ensure proper installation and to minimize the risk of errors during the upgrade process.

If the CPUs are currently operating on outdated firmware versions, the upgrade process must partially be performed in stages. Specifically, users with firmware revision “-“ must first load Master Prog Rev A, followed by Master Prog Rev B. Once the firmware on the CPU is at Rev B, the user can now directly load Master Prog Rev D (skipping Rev C). If the firmware is already at Rev C, simply load Master Prog Rev D. This sequence is necessary to ensure compatibility and successful installation.

To carry out this staged upgrade, users may need to request all previous Master Prog installation files from their Woodward representative, in addition to the latest Rev D file.

There are no special instructions for updating the I/O modules. The latest version of the I/O module firmware is contained within Rev D of the Master Prog.

For reference, the tables below show compatibility between the various combinations of the module hardware revisions, firmware versions, and GAP Coder releases.

Table 1. CPU Revision and Firmware Compatibility

		5466-1300/-1324 CPU				
		Rev. -	Rev. A	Rev. B	Rev. C	Rev. D
5418-4950 MPROG	Rev. -	●	●			
	Rev. A	●	●			
	Rev. B	●	●	●		
	Rev. C	●	●	●	●	●
	Rev. D	●	●	●	●	●

Table 2. Firmware and GAP Coder Compatibility

		GAP Coder			
		1.0.0	1.0.1	1.1.0	1.1.1
5418-4950 MPROG	Rev. -	●			
	Rev. A		●		
	Rev. B			●	●
	Rev. C			●	●
	Rev. D			●	●

Table 3. Minimum Hardware Compatibility

	Simplex Controls	Redundant Controls
CPU 5466-1300/-1324	Rev "-" (or newer)	Rev D (or newer)
FlexAIO 5466-1303	Rev "-" (or newer)	Rev B (or newer)
DIO 32/16 5466-1304	Rev "-" (or newer)	Rev A (or newer)

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