

## Firmware 16.20 Micro / CPU OCS Series Release Notes

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Horner Automation has released a new Firmware revision for the Micro OCS Series products (X4, X7 and X10) and CPU Series products (CPU200/250)

This is available for download from the firmware section of the following websites:

**North American Website**      <https://hornerautomation.com/controller-firmware>

**European Website**            <http://www.hornerautomation.eu>

**NOTE:** This Firmware release requires bootloader to be installed and is not optional.

Latest System File Revisions for the Micro and CPU OCS Series	
Firmware	16.20
BIOS	X4 – 0.34, X7 – 0.14, X10 – 0.08, CPU200/250 – 0.04
CPLD	X4/X7/X10 – 1.2 SOM CPLD (CPU200 / CPU250) – 22 Carrier CPLD (CPU200 / CPU250) – 6

**A NOTE ABOUT FIRMWARE UPDATES:**

This firmware has been thoroughly tested, and every precaution has been taken to prevent the introduction of new issues that may be problematic in your application. It is always important for customers to perform their own internal system testing prior to deployment of the new firmware.

New Features		Affected Controllers: X4, X7, X10, CPU2XX
1.	Added WebMI 2.0 support <b>Note</b> – Requires Cscape 10.2 SP2 onwards	
2.	Added support for ASCII username and password <b>Note</b> – Requires Cscape 10.2 SP2 onwards	
3.	Added support for 76800K baud rate in BACNet MSTP protocol <b>Note</b> – Requires BACNetIP Server dll v5.11 onwards	
4.	Added support to apply license through SR register and System Menu	

Bug Fixes		Affected Controllers: X4, X7, X10, CPU2XX, unless specified otherwise
#	Main Subject	Description
1.	Modbus master block with array of structures enabled	Resolved issue where the device displayed an exception when an IEC program was configured with Modbus Master block and the array of structures was enabled
2.	Setting IP address to zero via registers	Resolved issue where the device would randomly restart when an IP address was configured with registers and values was set to zero
3.	Slider object	Resolved issue where the slider was drifting its position when the user held the slider in one position <b>Note</b> – Applicable to only X4 and X10 models
4.	GE SNP protocol using full duplex RS485	Resolved issue where GE SNP protocol was not working over RS-485 full duplex communication <b>Note</b> – <ul style="list-style-type: none"> <li>• Requires SNP dll v5.02 onwards</li> <li>• Requires Cscape 10.2 SP2 onwards</li> </ul>
5.	Trend graphs for negative Y axis	Resolved issue where negative Y-axis values were not plotted correctly in trend graphs

Known Issues			Affected Controllers: X4, X7, X10, CPU2XX
#	Subject	Description	Workaround
1.	Load Clone feature with password-protected Autoload.pgm files	If the correct password is not entered before the timeout, all following attempts to Load will not work, even if the correct password is entered within the timeout period.	<ol style="list-style-type: none"> <li>1. Clear the application.</li> <li>2. Cycle power to the controller.</li> <li>3. Perform Load Clone with correct password before timer expires.</li> </ol>
2.	Backup register	The Backup register feature takes a long time (about 500ms), impacting the scan rate in Run mode	N/a
3.	Triggering more than 150 alarms at a time – WebMI 2.0	When more than 150 alarms are triggered simultaneously, the alarms are not displayed on the WebMI 2.0 web page	Requires page refresh
Known Issues			Applicable to X10 only
4.	System menu pop up delay	There is a delay of about 1.5-1.8 seconds for the system menu screen to pop-up after pressing the system key on an X10	The graphics time slice to be increased from 10mSec to 20mSec.

## Technical Support

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