

Firmware 17.06 XL Prime Release Notes

Horner Automation has released a new Firmware revision for the following **XL Prime** products: XL6 Prime, XLW Prime, XL4 Prime, XL7 Prime, XL10 Prime, X5 Prime and XL15 Prime.

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

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

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

Latest System File Revisions for Products:	
Firmware	17.06
FPGA	0.2
Operating System	4.19.49
System Version	72

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.

Firmware 17.06 – New Features		Affected Controllers: All Prime models
1.	Added XL10W prime support.	
2.	Added new blocks STRINGTOUARRAY and UARRAYTOSTRING in Enhanced IEC to support USINT data types. Note: This requires Cscape 10 SP1 onwards.	
3.	<p>The following enhancements have been added to MQTT Sparkplug:</p> <ul style="list-style-type: none"> • Increased store-and-forward queue length from 256 to 1024 • Increased maximum publish topic size to 256 and 128 metrics per topic • Added Auto Reconnect enable/disable with configurable timeout • Added the ability to choose if a metric should be buffered or not in a store-and-forward situation 	

Firmware 17.06 – Bug Fixes		Affected Controllers: All Prime models
#	Main Subject	Description
1.	Netmask	<p>Resolved: Following a firmware update, the netmask changed to 0.0.0.0 instead of 255.255.255.0</p> <p>Note</p> <ul style="list-style-type: none"> • When the netmask is entered as 0.0.0.0 from the System Menu, it is automatically changed to 255.255.255.0. • When the user downloads a program with netmask 0.0.0.0, the device displays 255.255.255.0 after download.

Firmware 17.06 – Known Issues		Affected Controllers: All Prime models
#	Subject	Description
1.	CANopen	<ul style="list-style-type: none"> • CANopen application does not work as expected if the application is converted from IEC to Enhanced IEC, then from Enhanced IEC to IEC, then again from IEC to Enhanced IEC and back... repeatedly – followed by attempting to download. • Downloading of the program is not working using CANopen Passthrough. • Changing CAN baud rates continuously in the System Menu may cause the unit to reset and the Watchdog count may increase (this is a random occurrence). • Device not entering RUN mode if CANopen SET NMT block is configured in the Array of Structure Enabled IEC program.

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2.	Trend	<ul style="list-style-type: none"> For Snapshot / Continuous Trend types, after the power cycle starts at a slow pace and then increases in speed. Retentive trend: Following a power-cycle, value is not retained, and no vertical line is drawn.
3.	Screen Capture	Screen capture is not working for playback and streaming.
4.	J1939 Protocol	Transmit PGNs Send On trigger is not working when configured in Enhanced IEC program.
5.	IEC Open Ladder Block	IEC Open Flexible Comm block not working when variables are not tagged in the Array of Structure mode.
6.	WI-FI	Wi-Fi downloadable protocol (Modbus Client) is not working with External Registers.
7.	Recipe Configuration	Creation of recipe file (*.csv) within folder is not working.
8.	String Block	String block Insert Character is not inserting a character while giving string input (Sin) as constant – Enhanced IEC.
9.	PWN	PWM 1 and PWM 2 do not work as expected for a maximum count of 32000.
10.	WebMI	<ul style="list-style-type: none"> Menu Object Edit Screen Sync options are not working for Menu Options such as Enter, Esc, etc. Bitmap In Bitmaps, Number of Colors Selection 2 is not working correctly and there is a difference seen in the webpage and device when Number of Colors Selection is 16. Data Trend X-Axis Range font does not appear as per the configuration. Retentive Trend When accessing the Data Trend page, if the user navigates between tabs, then Data Trend does not appear correctly on webpage. The Minutes and Hours sample rate is not working correctly on webpages. Removable Media (RM) Selecting the RM block does not display files
11.	Serial Downloadable Port MJ1 / MJ2 (External Registers)	<ul style="list-style-type: none"> If there is a mismatch between the serial downloadable master/slave parity and stop bits, the CRC and No Response does not increase. When the Slave ID is Invalid, the manual update trigger bool is resetting without successful polling. The External Register, while switching screens three (3) to four (4) times, continuously increases corrupt response for one (1) to three (3) minutes, for every screen switch.

Firmware 17.06 – Known Issues		Affected Controllers: All Prime models
12.	Shape Object	If the line color is selected as 'None' in the line shape object, a white line appears on the display of the device.
13.	%SR5	%SR5 does not display the correct value when the device is in online/safe mode.
14.	Video Streaming	Video streaming does not work for multiple channels connected in a single instance (all at the same time). Note: Channel 1 does work for multiple channels and is currently the only exception to this issue.
15	WI-FI in Client Mode	The device requires a power cycle for WI-FI to function correctly when the user downloads the WI-FI client program on top of the Access Mode program.
Applicable to X5 Prime Models Only		
16.	Digital outputs	Digital outputs turn ON for 1.8 seconds when the device is powered on.
17.	Video Streaming	Streaming is not working for the "FULL SCREEN" resolution.

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