15 July 2026

Firmware 15.90 X2, X1, XLE/Ee, XLT/Te Release Notes

Horner Automation has released a new Firmware revision for the products (X2, X1, XLE/Ee and XLT/Te).

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

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

Latest System File Revisions for the X2, X1, XLE/Ee, XLT/Te	
Firmware	15.90
BIOS	X2 – 0.15, X1 – 0.16, XLE/T - 0.28, XLEe – 0.30, XLTe – 0.33
CPLD	X2 – 1.0, X1 – 1.0, XLE/Ee_XLT/Te – 2.0

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: X2, X1, XLE/Ee, XLT/Te
1.	Added support for ASCII username and password **Note:** Requires Cscape 10.2 SP3 onwards
2.	Added X1 support **Note:** Requires Cscape 10.2 SP3 onwards

Bug Fixes		Affected Controllers: X2, X1, XLE/Ee, XLT/Te
#	**Main Subject**	**Description**
1.	Autotune For a Non-Zero Minimum Slew Time	Resolved: Autotune would not function if a non-zero value was set for the Minimum Slew Time
2.	Loading an Existing. pgm File	Resolved: An existing .pgm file was not being loaded.

Known Issues			Affected Controllers: X2, XLE/Ee, XLT/Te
#	**Subject**	**Description**	**Workaround**
1.	Datalog	Data logged with 10 groups of 10-Dint variables, and a watchdog trip/system exception occurs when a MicroSD card is inserted/removed.	Set %SR174.1 to high and wait for %SR174.2 to become high before removing the microSD card
Applicable to X2 Only			
2.	Serial Downloadable Protocol	If there is parity and stop bit mismatch for the serial setting, the communication still occurs.	N/A
Applicable to XLEe and XLTe Only			
3.	Modbus TCP/IP	The Client device communicates with both Servers in Ethernet Modbus TCP/IP protocol communication when configured via register for trigger bit / manual ID, and ID is given for a single Server.	N/A

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