



XL PRIME SERIES



**THE WORLD'S MOST COMPLETE
ALL-IN-ONE CONTROLLER LINE**



XL7 Prime
now with
ATEX



FEATURES	
Controller	Ladder Logic Memory
	Logic Scan Rate
	Removable Memory
	Local Comment Storage
	Floating Point Support
Operator Interface	AutoTune PID Capable
	Characters/Pixels
	Display Technology
	Character Height
	Number of Screens
	Fields or Objects per Screen
	Total Keys
	Function Keys
I/O	OEM Faceplate Available
	Built-in I/O points
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod
	Digital Inputs/Outputs, Max
	Analog Inputs/Outputs, Max
	General Purpose Registers (words)*
Ethernet/ Internet	General Purpose Internal Coils (bits)
	Ethernet Support
	Remote Access
	Remote File Access
Serial Communications	WebMI Compatibility (Licensed Option)
	Serial Ports
	RS-232 Ports/RS-485 Ports
	PLC/Drive Protocols
	RTU/Modbus Master/Slave/Serial ASCII In/Out
Networking	USB A Port - USB 2.0
	USB Port
	Integrated CsCAN Network
	Maximum CsCAN Distance**
	Programming Over Network
Physical Specifications	Peer-to-Peer Messaging
	Height (inches/mm)
	Width (inches/mm)
Operating Specifications & Standards	Depth (inches/mm)
	Operating Temperature
	Humidity (non-condensing)
	Product Certifications/Approvals
Environmental Rating	

XL4 Prime
2MB
0.02mS/K
microSD
Yes
Yes
Yes
320 x 240 (QVGA)
3.5" TFT Color, 640 nits
Selectable Fonts
1023
1023
5
4 + System Key
Yes
22 - 44
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 ret.)
Standard
Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV*
SMTP (Client), NTP (Client), FTP (Server)
2
RS-232 & RS-485 (1 of each)
Yes
Yes
Flash Drive, Camera, Keyboard & Mouse
Mini B Programming Only
Standard
1640 ft.
Yes
Yes
3.78" / 96.0 mm
3.78" / 96.0 mm
2.26" / 57.5 mm
-10 to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13

X5 Prime
2MB
0.02mS/K
microSD
Yes
Yes
Yes
480 x 272
4.3" TFT Color, 450 nits
Selectable Fonts
1023
1023
5 (on screen)
4 + System Key (on screen)
Yes
12
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 ret.)
Yes
Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV*
SMTP (Client), NTP (Client), FTP (Server)
2
RS-232 / RS-485 (x2)
Yes
Yes
Flash Drive, Camera, Keyboard & Mouse
Mini B Programming Only
Standard
1640 ft.
Yes
Yes
3.79" / 96mm
4.92" / 125mm
1.22" / 31mm
-10°C to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13

*Actual retentive register count may vary from model to model, please contact factory for more details
**Please refer to CsCAN Installation Manual





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FEATURES	
Controller	Ladder Logic Memory
	Logic Scan Rate
	Removable Memory
	Local Comment Storage
	Floating Point Support
	AutoTune PID Capable
Operator Interface	Characters/Pixels
	Display Technology
	Character Height
	Number of Screens
	Fields or Objects per Screen
	Total Keys
	Function Keys
	OEM Faceplate Available
I/O	Built-in I/O points
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod
	Digital Inputs/Outputs, Max
	Analog Inputs/Outputs, Max
	General Purpose Registers (words)*
	General Purpose Internal Coils (bits)
Ethernet/ Internet	Ethernet Support
	Remote Access
	Remote File Access
	WebMI Compatibility (Licensed Option)
Serial Communications	Serial Ports
	RS-232 Ports/RS-485 Ports
	PLC/Drive Protocols
	RTU/Modbus Master/Slave/Serial ASCII In/Out
	USB A Port - USB 2.0
	USB Port
Networking	Integrated CsCAN Network
	Maximum CsCAN Distance**
	Programming Over Network
	Peer-to-Peer Messaging
Physical Specifications	Height (inches/mm)
	Width (inches/mm)
	Depth (inches/mm)
Operating Specifications & Standards	Operating Temperature
	Humidity (non-condensing)
	Product Certifications/Approvals
	Environmental Rating

XL6 Prime
2MB
0.02mS/K
microSD
Yes
Yes
Yes
640 x 480
5.7" TFT Color, 450 nits
Selectable Fonts
1023
1023
6
5 + System Key
Yes
22 - 44
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 ret.)
Standard
Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV*
SMTP (Client), NTP (Client), FTP (Server)
3
RS-232 &/or RS485
Yes
Yes
Flash Drive, Camera, Keyboard & Mouse
Mini B Programming Only
Standard
1640 ft.
Yes
Yes
5.66" / 143.8 mm
7.34" / 186.08 mm
1.84" / 46.62 mm
-10 to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type: 1, 3R, 4, 4x, 12, 12k, 13

XLW Prime
2MB
0.02mS/K
microSD
Yes
Yes
Yes
800 x 480
7" TFT Color, 420 nits
Selectable Fonts
1023
1023
6
5 + System Key (on screen)
Yes
22 - 44
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 ret.)
Standard
Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV*
SMTP (Client), NTP (Client), FTP (Server)
3
RS-232 &/or RS485
Yes
Yes
Flash Drive, Camera, Keyboard & Mouse
Mini B Programming Only
Standard
1640 ft.
Yes
Yes
5.66" / 143.8 mm
7.34" / 186.08 mm
1.84" / 46.62 mm
-10 to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type: 1, 3R, 4, 4x, 12, 12k, 13

*Actual retentive register count may vary from model to model, please contact factory for more details
**Please refer to CsCAN Installation Manual

*(MQTT Sparkplug & WebMI require a one-time upgrade; OCS360 is an annual subscription service.)



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FEATURES		XL7 Prime	XL10 Prime
Controller	Ladder Logic Memory	2MB	2MB
	Logic Scan Rate	0.02mS/K	0.02mS/K
	Removable Memory	microSD	microSD
	Local Comment Storage	Yes	Yes
	Floating Point Support	Yes	Yes
Operator Interface	AutoTune PID Capable	Yes	Yes
	Characters/Pixels	800 x 480	640 x 480 (VGA)
	Display Technology	7" - TN Ctr, 420 nits (Std)/1000 nits (-22 opt)*	10.4" TFT Color, 550 nits
	Character Height	Selectable Fonts	Selectable Fonts
	Number of Screens	1023	1023
	Fields or Objects per Screen	1023	1023
	Total Keys	6	8
	Function Keys	5 + System Key	7 + System Key
I/O	OEM Faceplate Available	Yes	Yes ^{††}
	Built-in I/O points	22 - 44	22 - 44
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod	CsCAN & Ethernet	CsCAN & Ethernet
	Digital Inputs/Outputs, Max	2048 / 2048	2048 / 2048
	Analog Inputs/Outputs, Max	512 / 512	512 / 512
	General Purpose Registers (words)*	50,000	50,000
	General Purpose Internal Coils (bits)	32768 (16384 ret.)	32768 (16384 retentive)
Ethernet/ Internet	Ethernet Support	Standard, 2 Ports	Standard, 2 Ports
	Remote Access	Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD	Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
	Remote File Access	MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV**	MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV**
	WebMI Compatibility (Licensed Option)	SMTP (Client), NTP (Client), FTP (Server)	SMTP (Client), NTP (Client), FTP (Server)
Serial Communications	Serial Ports	3	3
	RS-232 Ports/RS-485 Ports	RS-232 &/or RS485	RS-232 &/or RS485
	PLC/Drive Protocols	Yes	Yes
	RTU/Modbus Master/Slave/Serial ASCII In/Out	Yes	Yes
	USB A Port - USB 2.0	Flash Drive, Camera, Keyboard & Mouse	Flash Drive, Camera, Keyboard & Mouse
Networking	USB Port	Type C - Programming Only	Mini B Programming Only
	Integrated CsCAN Network	Standard, 2 Ports	Standard, 2 Ports
	Maximum CsCAN Distance**	1640 ft.	1640 ft.
	Programming Over Network	Yes	Yes
	Peer-to-Peer Messaging	Yes	Yes
Physical Specifications	Height (inches/mm)	5.69" / 144.49 mm	9.08" / 230.6 mm
	Width (inches/mm)	8.27" / 210 mm	11.94" / 303.3 mm
	Depth (inches/mm)	3.57" / 90.63 mm	2.43" / 61.7 mm
Operating Specifications & Standards	Operating Temperature	-10 to 60°C (-40°C option available)	-10 to 60°C
	Humidity (non-condensing)	5 to 95%	5 to 95%
	Product Certifications/Approvals	UL Class 1 Div II, CE, Atex (-450 opt)	UL Class 1 Div II, CE
	Environmental Rating	UL: 1, 3R, 4, 4x, 12, 12k, 13	UL Type 1, 3R, 4, 4x, 12, 12k, 13

*Actual retentive register count may vary from model to model, please contact factory for more details
**Please refer to CsCAN Installation Manual

*22 opt - Sunlight Display - TFT Color, 900 nits
**MQTT Sparkplug & WebMI require a one-time upgrade; OCS360 is an annual subscription service.)

THE INDUSTRY LEADER

INDUSTRY LEADING ALL-IN-ONE CONTROLLER

For years, the Horner XL Series has been trusted worldwide as a premier all-in-one controller. The XL Prime Series builds on this legacy with a custom System on Module (SOM) featuring a faster CPU, onboard storage, and 100% non-volatile memory—requiring a coin cell only for the clock.

Whether you are designing a new control system or upgrading an existing one, the XL Prime offers a fully integrated hardware/software solution. Existing XL application programs port over in under 30 seconds.

- All-in-One Control: Integrates logic, HMI, I/O, and networking into a single unit.
- Modern Memory Architecture: Custom ARM-based SOM with 100% non-volatile memory for maximum reliability.
- High-Performance Engine: Fast scan times using Variable-based Advanced Ladder or IEC 61131.
- Online Programming: Update logic without stopping the controller.
- High-Resolution Touchscreen: Crisp graphics with near-instant screen updates.
- High-Speed Counters: Four built-in counters supporting frequencies over 500 kHz.
- Industrial Networking & Cloud: Supports EtherNet/IP, Modbus TCP, BACnet IP, FTP, and Email, plus WebMI monitoring and MQTT Sparkplug cloud connectivity.*
- Plug-and-Play Datalogging: Record process data and recipes directly to microSD or USB storage.

**WebMI and MQTT require a one-time license*

LOWER COSTS, MORE OPTIONS, EASY-TO-USE

Fully integrated hardware and software simplify programming, installation, and setup. The XL Prime's compact footprint easily retrofits into existing cabinets. Beyond onboard I/O, systems can expand using SmartBlock, SmartStix, or SmartMod remote I/O via CsCAN, Ethernet, or Modbus. MicroSD storage also handles data logging, recipes, and application files.

CONNECTIVITY

The XL Prime series is designed for modular growth, CsCAN and Modbus RTU networking come standard, with Ethernet included across the XL Prime lineup. Flexible communication and remote I/O options make expanding current systems simple and accurate.

CUSTOMIZED FOR SPECIFIC OEM NEEDS

The XL Prime series is white-label ready for easy rebranding. Its compact design fits standard control cabinets, and custom overlays allow OEMs to add their own logos, branding, and industry terminology.

MQTT SPARKPLUG SUPPORT

One of the XL Prime series progressive advancements includes support for MQTT Sparkplug as a licensed option. MQTT Sparkplug is an OASIS standard messaging protocol for the Internet of Things (IoT). It is designed as an extremely lightweight publish/subscribe messaging transport that is ideal for connecting remote devices with a small code footprint and minimal network bandwidth. MQTT Sparkplug today is used in a wide variety of industries, such as automotive, manufacturing, telecommunications, oil and gas, etc. It has also become one of the most popular choices for modern SCADA systems, such as Ignition SCADA by Inductive Automation®.



IN ALL-IN-ONE CONTROLS

BUILT-IN DIGITAL & ANALOG I/O

	DC In	DC Out (+)	Relay Out	HSC In	Pulse Out	mA/V In	mA/V RTD/TC (Universal)	mA/V Out
X5 Prime	4	4		4	2	4		
Model 0								
Model 2	12		6	4		4		
Model 3	12	12		4	2	2		
Model 4	24	16		4	2	2		
Model 5	12	12		4	2		2	2
Model 6	12	12		4	2		6	4

*shared with total DC inputs

**shared with total DC outputs

ADD ON OPTIONS

HE-XDAC007	2-channel Analog Out (mA/V)
HE-XDAC107	4-channel Analog Out (mA/V)
HE-XHSQ	24V Dual High Speed Output
HE-XHSQ-5	5V Dual High Speed Output
HE-WIFIUSBV2	22mm Panel Mounted USB WiFi Module

XL PRIME SERIES PART NUMBERS

Model	No I/O	Model 2	Model 3	Model 4	Model 5	Model 6
X5 Prime - HE-XP5 Model 1, see specifications above.						
XL4 Prime	HE-XPC1E0	HE-XPC1E2	HE-XPC1E3	HE-XPC1E4	HE-XPC1E5	HE-XPC1E6
XL6 Prime	HE-XPL1E0	HE-XPL1E2	HE-XPL1E3	HE-XPL1E4	HE-XPL1E5	HE-XPL1E6
XLW Prime	HE-XPLWE0	HE-XPLWE2	HE-XPLWE3	HE-XPLWE4	HE-XPLWE5	HE-XPLWE6
XL7 Prime	HE-XPW1E0	HE-XPW1E2	HE-XPW1E3	HE-XPW1E4	HE-XPW1E5	HE-XPW1E6
XL10 Prime	HE-XPV1E0	HE-XPV1E2	HE-XPV1E3	HE-XPV1E4	HE-XPV1E5	HE-XPV1E6
XL10W Prime	HE-X10PE0	HE-X10PE2	HE-X10PE3	HE-X10PE4	HE-X10PE5	HE-X10PE6
XL15 Prime*	HE-XP15E0	HE-XP15E2	HE-XP15E3	HE-XP15E4	HE-XP15E5	HE-XP15E6

XL PRIME REMOTE I/O OPTIONS

OCS-I/O	Base offers 2 Flexible Inputs (Digital or Analog), 1 Digital Output, 1 Universal Analog Inputs, 1 Analog Outputs. Add-on modules available for expandability.
SMARTTRAIL	Expands the I/O capacity of any Prime controller. Uses either CANbus or Ethernet communications and can be installed locally or remotely.
SMARTBLOCK	Provides easy configuration and network expansion using CsCAN communications.
SMARTSTIX	A cost-effective options as expansion or remote I/O which is also compact. Uses CsCAN communications.

WebMI 2.0 - TAKE (REMOTE) CONTROL

With Horner WebMI 2.0, you can monitor and control plant data from the palm of your hand. Published directly from the OCS Controller, WebMI allows the same or unique web pages to be monitored and controlled from your computer, tablet or other mobile device, supporting all of our controllers. Developed completely within our Cscape environment, WebMI allows for state-of-the-art HTML5 development without the need for web programming skills. The licensing and registration process is quick and simple while the benefits and affordability of WebMI 2.0 will truly change your world.



Cscape Configurability

Implement your OCS application remotely without any manual HTML development.



Level-Based, Object Security

From graphic objects to application commands - you control who can do what.



IOT - Internet of Things

Instantly connect to your automated applications to grow and improve business.



HTML5

Instantly deliver almost everything you want to accomplish online to your web browser.



Scalable Vector Graphics (SVG)

Sharp, clear, and professional screens regardless of the device you use, any size.



Licensing Capabilities

On or off-line licensing packages that will work within your organizational scope.



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FEATURES	
Controller	Ladder Logic Memory
	Logic Scan Rate
	Removable Memory
	Local Comment Storage
	Floating Point Support
	AutoTune PID Capable
Operator Interface	Characters/Pixels
	Display Technology
	Character Height
	Number of Screens
	Fields or Objects per Screen
	Total Keys
	Function Keys
I/O	OEM Faceplate Available
	Built-in I/O points
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod
	Digital Inputs/Outputs, Max
	Analog Inputs/Outputs, Max
	General Purpose Registers (words)*
	General Purpose Internal Coils (bits)
Ethernet/ Internet	Ethernet Support
	Remote Access
	Remote File Access
	WebMI Compatibility (Licensed Option)
Serial Communications	Serial Ports
	RS-232 Ports/RS-485 Ports
	PLC/Drive Protocols
	RTU/Modbus Master/Slave/Serial ASCII In/Out
	USB A Port - USB 2.0
Networking	USB Port
	Integrated CsCAN Network
	Maximum CsCAN Distance**
	Programming Over Network
	Peer-to-Peer Messaging
Physical Specifications	Height (inches/mm)
	Width (inches/mm)
	Depth (inches/mm)
Operating Specifications & Standards	Operating Temperature
	Humidity (non-condensing)
	Product Certifications/Approvals
	Environmental Rating

XL10W Prime	
	2MB
	0.02mS/K
	microSD
	Yes
	Yes
	Yes
	1024 x 600 (WSVGA)
	10.1" LED Color, 300 nits
	Selectable Fonts
	1023
	1023
	8 (on screen)
	5+ System Key (on screen)
	Yes††
	22 - 44
	CsCAN & Ethernet
	2048 / 2048
	512 / 512
	50,000
	32768 (16384 retentive)
	Standard, 2 Ports
	Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV**
	SMTP (Client), NTP (Client), FTP (Server)
	3
	RS-232 & RS-485; RS-232 / RS-485
	Yes
	Yes
	Flash Drive, Camera, Keyboard & Mouse
	USB Type C, Programming Only
	Standard, 2 Ports
	1640 ft.
	Yes
	Yes
	6.5" / 166.2 mm
	10.4" / 263.9 mm
	2.2" / 55.8 mm
	-10 to 60°C
	5 to 95%
	UL Class 1 Div II (pending), CE
	UL Type I, 3R, 4, 4x, 12, 12k, 13 (pending)

*Actual retentive register count may vary from model to model, please contact factory for more details
**Please refer to CsCAN Installation Manual

** (MQTT Sparkplug & WebMI require a one-time upgrade; OCS360 is an annual subscription service.)





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FEATURES		XL15 Prime
Controller	Ladder Logic Memory	2MB
	Logic Scan Rate	0.02mS/K
	Removable Memory	microSD
	Local Comment Storage	Yes
	Floating Point Support	Yes
	AutoTune PID Capable	Yes
Operator Interface	Characters/Pixels	1024 x 768 (XGA)
	Display Technology	15" TFT Color, 500 nits
	Character Height	Selectable Fonts
	Number of Screens	1023
	Fields or Objects per Screen	1023
	Total Keys	8 (on screen)
	Function Keys	7 + System Key (on screen)
	OEM Faceplate Available	No
I/O	Built-in I/O points	22 - 44
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod	CsCAN & Ethernet
	Digital Inputs/Outputs, Max	2048 / 2048
	Analog Inputs/Outputs, Max	512 / 512
	General Purpose Registers (words)*	50,000
	General Purpose Internal Coils (bits)	32768 (16384 retentive)
Ethernet/ Internet	Ethernet Support	Standard, 2 Ports
	Remote Access	Ethernet IP (Server & HMI), Modbus TCP (Client/Server), BACnet IP (Server), EGD
	Remote File Access	MQTT Sparkplug, Horner OCS360 Cloud Service, WebMI via HTML5, Envision RV*
	WebMI Compatibility (Licensed Option)	SMTP (Client), NTP (Client), FTP (Server)
Serial Communications	Serial Ports	3
	RS-232 Ports/RS-485 Ports	RS-232 & RS-485; RS-232 / RS-485
	PLC/Drive Protocols	Yes
	RTU/Modbus Master/Slave/Serial ASCII In/Out	Yes
	USB A Port - USB 2.0	Flash Drive, Camera, Keyboard & Mouse
	USB Port	USB Type C, Programming Only
Networking	Integrated CsCAN Network	Standard, 2 Ports
	Maximum CsCAN Distance**	1640 ft.
	Programming Over Network	Yes
	Peer-to-Peer Messaging	Yes
Physical Specifications	Height (inches/mm)	11.07" / 281.3 mm
	Width (inches/mm)	14.34" / 364.3mm
	Depth (inches/mm)	2.80" / 71.1 mm
Operating Specifications & Standards	Operating Temperature	-10 to 60°C
	Humidity (non-condensing)	5 to 95%
	Product Certifications/Approvals	UL Class 1 Div II (pending), CE
	Environmental Rating	UL Type 1, 3R, 4, 4x, 12, 12k, 13 (pending)

*Actual retentive register count may vary from model to model, please contact factory for more details
**Please refer to CsCAN Installation Manual

*(MQTT Sparkplug & WebMI require a one-time upgrade; OCS360 is an annual subscription service.)



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