



# XL Prime Series

Our Most Advanced All-In-One Controller

New users will be impressed by the power and speed...  
Current users will love the seamless transition from the XL Series!

## MODELS:



For years, the Horner XL Series has enjoyed its reputation as a highly functional All-in-one Controller available anywhere. These products are currently trusted with thousands of applications world-wide.

The NEW XL Prime Series builds upon that proven reputation - offering new and existing users alike performance upgrades and a highly secure, modern memory architecture. This is accomplished with a new Horner designed System on Module (SOM) - containing a faster CPU, onboard mass storage and 100% non-volatile memory. The only battery is a small coin cell - simply tasked with maintaining the clock.

If you are a new automation designer looking for an innovative, reliable control solution - the XL Prime Series offers a fully integrated product in hardware and software. If you are an existing XL Series user - your current application program will port straight through in less than 30 seconds. In either case you can't go wrong!

## FEATURES:

**ALL-IN-ONE CONTROL** - performs all machine functions in a unified hardware design; Logic Control, Operator Interface, I/O and Networking.

**MODERN MEMORY ARCHITECTURE** - based on a custom designed SOM (System on Module) utilizing a powerful ARM microprocessor and 100% non-volatile memory for reliability.

**HIGH-PERFORMANCE LOGIC ENGINE** - fast scan times solving user logic using Variable-based Advanced Ladder logic or the IEC 6-1131 language set.

**ONLINE PROGRAMMING** - make logic changes without stopping the controller.

**HIGH-RESOLUTION COLOUR TOUCHSCREEN** - for detailed graphics and nearly instantaneous screen updates.

**ADVANCED HIGH-SPEED COUNTER** - four built-in counters supporting frequencies over 500 kHz.

**INDUSTRIAL ETHERNET AND REMOTE CONTROL** - Ethernet IP, Modbus TCP and BACnet IP; FTP file transfer, Email. WebMI\* for web-based Remote Monitoring; Push data to the cloud with MQTT\* Sparkplug. \*WebMI/MQTT require one-time license.

**PLUG-AND-PLAY DATALOGGING** - record machine and process variables to microSD or USB Flash Drive.

### XL PRIME SERIES PART NUMBERS

I/O OPTION	XL4 Prime	XL6 Prime	XLW Prime	XL7 Prime*	XL10 Prime*	XL15 Prime*
Option 0	HEXP251C100	HEXP371C100	HEXP381C100	HEXP391C100	HEXP505C100	HEXT751C100
Option 2	HEXP251C112	HEXP371C112	HEXP381C112	HEXP391C112	HEXP505C112	HEXT751C112
Option 3	HEXP251C113	HEXP371C113	HEXP381C113	HEXP391C113	HEXP505C113	HEXT751C113
Option 4	HEXP251C114	HEXP371C114	HEXP381C114	HEXP391C114	HEXP505C114	HEXT751C114
Option 5	HEXP251C115	HEXP371C115	HEXP381C115	HEXP391C115	HEXP505C115	HEXT751C115
Option 6	HEXP251C116	HEXP371C116	HEXP381C116	HEXP391C116	HEXP505C116	HEXT751C116

\*These models coming soon...

LOGIC CONTROLLER	
CPU	ARM
Logic Scan Rate	0.02 ms/kB
Logic Program Size	2MB
Program Variables	50,000 words & 32,768 bits
I/O Variables	1,024 words & 4,096 bits
Logic Languages	Horner Advanced Ladder IEC 6-1131

CONNECTIVITY	
USB Ports	USB A: Storage, WiFi (opt), Video USB mini-B: Programming
Serial Ports	1 - RS-232 and 1 - RS-485 Addl RS232/RS485 on XL7, XL10, XL15
Serial Protocols	Modbus Master/Slave, BACnet MSTP Slave SNP, DFI, ASCII, NMEA
Ethernet Ports	1 - XL4 Prime, XL6 Prime, XLW Prime 2 - XL7 Prime, XL10 Prime, XL15 Prime
Ethernet Protocols	Modbus TCP Client & Server, BACnet IP Server, Ethernet IP I/O Device, Logix Tag Exchange, Ethernet Global Data, ASCII over Ethernet, WebMI, Email, FTP Server, NTP
CAN Ports	1 - XL4 Prime, XL6 Prime, XLW Prime 2 - XL7 Prime, XL10 Prime, XL15 Prime
CAN Protocols	CsCAN, CANopen (Master & Slave) J1939, DeviceNet Scanner

USER INTERFACE		
Model	Resolution	Physical Keys
XL4 Prime	320 x 240	5
XL6 Prime	640 x 480	6
XLW Prime	800 x 480	0
XL7 Prime	800 x 480	6
XL10 Prime	640 x 480	8
XL15 Prime	1024 x 768	0

AUDIO & VIDEO	
Video Playback	USB Video, mp4 320 x 240
Audio Playback	wav, mp3 XL7 Prime, XL10 Prime, XL15 Prime only

I/O OPTIONS	
Option 0	No Built-in I/O
Option 2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In
Option 3	12 DC in, 12 DC Out, 2 - 12-bit Analog In
Option 4	24 DC in, 16 DC Out, 2 - 12-bit Analog In
Option 5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out (mA/V)
Option 6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out (mA/V)
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod and OCSI/O

PHYSICAL DIMENSIONS (WXHXD)		
XL4 Prime	mm in	96 x 96 x 58 3.78 x 3.78 x 2.26
XL6 Prime	mm in	187 x 144 x 47 7.34 x 5.66 x 1.84
XLW Prime	mm in	187 x 144 x 47 7.34 x 5.66 x 1.84
XL7 Prime	mm in	211 x 144 x 70 8.27 x 5.66 x 2.72
XL10 Prime	mm in	304 x 231 x 62 11.94 x 9.08 x 2.43
XL15 Prime	mm in	371 x 320 x 104 14.57 x 12.6 x 4.08

MEMORY & STORAGE	
Removable Mass Storage	microSD (>32GB) USB (>32GB)
Onboard Mass Storage (Program Storage)	EMMC (8GB)
High Speed RAM (Variable Storage)	MRAM (128kB)
All memory is 100% non-volatile (non-battery dependent)	

OPERATING SPECS. & STANDARDS	
Primary Power Range	10-30VDC
Operating Temperature	-10° to 60°C
Relative Humidity	5 to 95% (non-condensing)
UL Rating	Class 1, Div 2; Groups A, B, C, D
UL Type Ratings	3R, 4, 4x, 12, 12k, 13
IP Rating	IP65