



XL Prime Series

The World's Most Advanced
All-In-One Controller Just Outdid Itself

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 a reputation as the most 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 COLOR 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	X5 Prime	XL4 Prime	XL6 Prime	XLW Prime	XL7 Prime	XL10 Prime	XL15 Prime*
Option 0	HE-XP5	HE-XPC1E0	HE-XPL1E0	HE-XPLWE0	HE-XPW1E0	HE-XPV1E0	HE-XP15E0
Option 2		HE-XPC1E2	HE-XPL1E2	HE-XPLWE2	HE-XPW1E2	HE-XPV1E2	HE-XP15E2
Option 3		HE-XPC1E3	HE-XPL1E3	HE-XPLWE3	HE-XPW1E3	HE-XPV1E3	HE-XP15E3
Option 4		HE-XPC1E4	HE-XPL1E4	HE-XPLWE4	HE-XPW1E4	HE-XPV1E4	HE-XP15E4
Option 5		HE-XPC1E5	HE-XPL1E5	HE-XPLWE5	HE-XPW1E5	HE-XPV1E5	HE-XP15E5
Option 6		HE-XPC1E6	HE-XPL1E6	HE-XPLWE6	HE-XPW1E6	HE-XPV1E6	HE-XP15E6

*This model coming soon; X5 Prime is available in noted model only

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, DF1, ASCII, NMEA
Ethernet Ports	1 - X5 Prime, 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 - X5 Prime, 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
X5 Prime	480 x 272	0
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

X5 Option (only)	4 DC In, 4 DC Out, 4 - 12 bit Analog In
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)

X5 Prime	mm/in	90 x 119 x 36 / 3.79 x 4.92 x 1.41
XL4 Prime	mm/in	96 x 96 x 58 / 3.78 x 3.78 x 2.26
XL6 Prime	mm/in	187 x 144x 47 / 7.34 x5.66 x 1.84
XLW Prime	mm/in	187 x 144x 47 / 7.34 x5.66 x 1.84
XL7 Prime	mm/in	211x 144 x 70 / 8.27 x5.66 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