

# AN INDUSTRY LEADER IN ALL-IN-ONE CONTROLS



## HORNER EUROPE

Horner Ireland Limited, Unit 1  
Centrepont, Centrepark Road  
Cork, Ireland  
P +353-21-4321266  
F +353-21-4321826  
[www.hornerautomation.eu](http://www.hornerautomation.eu)  
[info@horner-apg.com](mailto:info@horner-apg.com)

## INTERNATIONAL OPERATIONS

### HORNER USA

59 S. State Ave.  
Indianapolis, Indiana 46201  
P 317-916-4274  
F 317-639-4279  
TF 877-665-5666  
[www.hornerautomation.com](http://www.hornerautomation.com)  
[sales@heapg.com](mailto:sales@heapg.com)

### HORNER CANADA

916 42 Avenue SE #120  
Calgary, Alberta T2G 1Z2  
P (403) 444-0928  
F (403) 265-0966  
[info@hornercanada.com](mailto:info@hornercanada.com)  
[www.hornerautomation.com](http://www.hornerautomation.com)

### HORNER INDIA

Vaishnavi, No. 3, Domlur 2nd Stage  
3rd Phase, Domlur Main Rd.  
Bangalore 560071  
Karnataka, India  
P +91-80-41263460 / 61 / 62  
F +91-80-41263464  
[info@hornerautomation.in](mailto:info@hornerautomation.in)

### HORNER CHINA

Sales and Tech Support for China  
Room 1001, Nongke Building  
No. 268, Baidilu Road, Nankai District  
Tianjin 300192, P.R. China  
P +86-022-23367571/23360759  
F +86-022-23662715  
[info@hornerchina.com.cn](mailto:info@hornerchina.com.cn)  
[www.hornerchina.com.cn](http://www.hornerchina.com.cn)

### HORNER AUSTRALIA

Unit 15  
104 Ferntree Gully Road  
Oakleigh Victoria 3166  
P 03 9544 0733  
F 03 9544 0977  
[jim.callan@heapg.com](mailto:jim.callan@heapg.com)

## AN INDUSTRY LEADING ALL-IN-ONE CONTROLLER

For years, the Horner XL Series has enjoyed a 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!

- 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% nonvolatile 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.

## LOWER COSTS, MORE OPTIONS, EASY-TO-USE

With fully integrated hardware and software, the XL Prime series offers easier programming, installation, development and set-up. Our controllers have a small footprint and can easily retrofit into an existing system with little effort. The XL Prime are not limited to their on-board I/O. Many variations of distributed remote I/O, including SmartBlock, SmartStix, and SmartMod can be connected via CsCAN, Ethernet, or Modbus. RTU/Modbus based SmartMod I/O is also a cost-effective means of adding a small amount of analog I/O.

The XL Prime series utilizes microSD™ Data Storage Memory, ideal for data logging, machine recipes, and application files.

## CONNECTIVITY

The XL Prime series is designed as a modular system for easy selection and growth; CsCAN (CAN Based) high speed networking and Modbus RTU networking capabilities are standard in both series controllers. Ethernet is standard in the XL Prime series of controllers, and available as an optional component in all other models. Remote I/O options offer high performance, accurate analog, and easy-to-configure digital only modules. Horner I/O has flexible communication options that easily expand current systems.

## CUSTOMIZED FOR SPECIFIC OEM NEEDS

The XL Prime series is a white-label product: operator stations that other companies can rebrand. Also, they fit in most cabinets, console designs, and colour schemes. A customized overlay can be added to match the language, logo, and industry terms. This gives the flexibility to use the XL Prime series in any application.



## 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 |
|----------|-------|------------|-----------|---------|------------|---------|-------------------------|----------|
| Model 1* | 4     | 4          |           | 4       | 2          | 4       |                         |          |
| 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  
† Model 1 applies to the X5 Prime only

## BUILT-IN I/O 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   |

## 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 |
| XL15 Prime*       | HE-XP15E0 | HE-XP15E2                          | HE-XP15E3 | HE-XP15E4 | HE-XP15E5 | HE-XP15E6 |

\*this model coming soon

## 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 - TAKE (REMOTE) CONTROL

With Horner WebMI, 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 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.



## XL PRIME SERIES OCS



## ALL-IN-ONE INTELLIGENT AND POWERFUL CONTROLS

| 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/<br>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 Port - USB 2.0 port A                           |
|                                      | USB Port -Mini-B 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)                                   |
|                                      | I/O Module Depth                                    |
| Operating Specifications & Standards | Operating Temperature                               |
|                                      | Humidity (non-condensing)                           |
|                                      | Product Certifications/Approvals                    |
|                                      | Environmental Rating                                |

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



| X5 Prime                          |
|-----------------------------------|
| 2MB                               |
| 0.02mS/K                          |
| microSD                           |
| Yes                               |
| Yes                               |
| Yes                               |
| 480 x 272                         |
| LCD with LED 450 nits             |
| Selectable Fonts                  |
| 1023                              |
| 1023                              |
| 5 (on screen)                     |
| 4 (on screen)                     |
| Yes                               |
| 12                                |
| CsCAN & Ethernet                  |
| 2048 / 2048                       |
| 512 / 512                         |
| 50,000                            |
| 16,384                            |
| Yes                               |
| EnvisionRV                        |
| EnvisionFX                        |
| Yes                               |
| 2                                 |
| RS-232 / RS-485 (x2)              |
| Yes                               |
| Yes                               |
| Datalog & Backup                  |
| Programming Only                  |
| Standard                          |
| 1640 ft.                          |
| Yes                               |
| Yes                               |
| 3.79" / 96mm                      |
| 4.92" / 125mm                     |
| 1.22" / 31mm                      |
| COM option adds 0.5"/13 mm depth  |
| -10°C to 60°C                     |
| 5 to 95%                          |
| UL Class 1 Div II, CE             |
| UL Type 1, 3R, 4, 4x, 12, 12k, 13 |



| XL4 Prime                         |
|-----------------------------------|
| 2MB                               |
| 0.02mS/K                          |
| microSD                           |
| Yes                               |
| Yes                               |
| Yes                               |
| 320 x 240 (QVGA)                  |
| 3.5" TFT Colour                   |
| Selectable Fonts                  |
| 1023                              |
| 1023                              |
| 5                                 |
| 4                                 |
| Yes                               |
| 22 - 44                           |
| CsCAN & Ethernet                  |
| 2048 / 2048                       |
| 512 / 512                         |
| 50,000                            |
| 32768 (16384 ret.)                |
| Standard                          |
| HTTP or EnvisionRV                |
| FTP or EnvisionFX                 |
| Yes                               |
| 2                                 |
| RS-232 & RS-485 (1 of each)       |
| Yes                               |
| Yes                               |
| Datalog & Backup                  |
| Programming Only                  |
| Standard                          |
| 1640 ft.                          |
| Yes                               |
| Yes                               |
| 3.78" / 96.0 mm                   |
| 3.78" / 96.0 mm                   |
| 2.26" / 57.5 mm                   |
| COM option adds 0.5"/13 mm depth  |
| -10 to 60°C                       |
| 5 to 95%                          |
| UL Class 1 Div II, CE             |
| UL Type 1, 3R, 4, 4x, 12, 12k, 13 |



| XL6 Prime                          |
|------------------------------------|
| 2MB                                |
| 0.02mS/K                           |
| microSD                            |
| Yes                                |
| Yes                                |
| Yes                                |
| 640 x 480                          |
| 5.7" TFT Colour                    |
| Selectable Fonts                   |
| 1023                               |
| 1023                               |
| 6                                  |
| 6 (on screen)                      |
| Yes                                |
| 22 - 44                            |
| CsCAN & Ethernet                   |
| 2048 / 2048                        |
| 512 / 512                          |
| 50,000                             |
| 32768 (16384 ret.)                 |
| Standard                           |
| HTTP or EnvisionRV                 |
| FTP or EnvisionFX                  |
| Yes                                |
| 3                                  |
| RS-232 &/or RS485                  |
| Yes                                |
| Yes                                |
| Datalog & Backup                   |
| Programming Only                   |
| Standard                           |
| 1640 ft.                           |
| Yes                                |
| Yes                                |
| 5.66" / 143.8 mm                   |
| 7.34" / 186.08 mm                  |
| 1.84" / 46.62 mm                   |
| COM opt adds 0.9"/22mm depth       |
| -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 Colour                      |
| Selectable Fonts                   |
| 1023                               |
| 1023                               |
| 6                                  |
| 5 (on screen)                      |
| Yes                                |
| 22 - 44                            |
| CsCAN & Ethernet                   |
| 2048 / 2048                        |
| 512 / 512                          |
| 50,000                             |
| 32768 (16384 ret.)                 |
| Standard                           |
| HTTP or EnvisionRV                 |
| FTP or EnvisionFX                  |
| Yes                                |
| 3                                  |
| RS-232 &/or RS485                  |
| Yes                                |
| Yes                                |
| Datalog & Backup                   |
| Programming Only                   |
| Standard                           |
| 1640 ft.                           |
| Yes                                |
| Yes                                |
| 5.66" / 143.8 mm                   |
| 7.34" / 186.08 mm                  |
| 1.84" / 46.62 mm                   |
| COM opt adds 0.9"/22mm depth       |
| -10 to 60°C                        |
| 5 to 95%                           |
| UL Class 1 Div II, CE              |
| UL Type: 1, 3R, 4, 4x, 12, 12k, 13 |

## XL PRIME SERIES



| XL7 Prime                     |
|-------------------------------|
| 2MB                           |
| 0.02mS/K                      |
| microSD                       |
| Yes                           |
| Yes                           |
| Yes                           |
| 800 x 480                     |
| 7" TFT Colour                 |
| Selectable Fonts              |
| 1023                          |
| 1023                          |
| 6                             |
| 5                             |
| Yes                           |
| 22 - 44                       |
| CsCAN & Ethernet              |
| 2048 / 2048                   |
| 512 / 512                     |
| 50,000                        |
| 32768 (16384 ret.)            |
| Standard, 2 Ports             |
| HTTP or EnvisionRV            |
| FTP or EnvisionFX             |
| Yes                           |
| 3                             |
| RS-232 &/or RS485             |
| Yes                           |
| Yes                           |
| Datalog & Backup              |
| Programming Only              |
| Standard, 2 Ports             |
| 1640 ft.                      |
| Yes                           |
| Yes                           |
| 5.66" / 143.8 mm              |
| 8.27" / 210.1 mm              |
| 1.78" / 43.94 mm              |
| COM opt adds 0.9"/22mm depth  |
| -10 to 60°C                   |
| 5 to 95%                      |
| UL Class 1 Div II, CE         |
| UL: 1, 3R, 4, 4x, 12, 12k, 13 |



| XL10 Prime                         |
|------------------------------------|
| 2MB                                |
| 0.02mS/K                           |
| microSD                            |
| Yes                                |
| Yes                                |
| Yes                                |
| 640 x 480 (VGA)                    |
| 10.4" TFT Colour                   |
| Selectable Fonts                   |
| 1023                               |
| 1023                               |
| 8                                  |
| 7                                  |
| Yes <sup>††</sup>                  |
| 22 - 44                            |
| CsCAN & Ethernet                   |
| 2048 / 2048                        |
| 512 / 512                          |
| 50,000                             |
| 32768 (16384 retentive)            |
| Standard, 2 Ports                  |
| HTTP or EnvisionRV                 |
| FTP or EnvisionFX                  |
| Yes                                |
| 3                                  |
| RS-232 &/or RS485                  |
| Yes                                |
| Yes                                |
| Datalog & Backup                   |
| Programming Only                   |
| Standard, 2 Ports                  |
| 1640 ft.                           |
| Yes                                |
| Yes                                |
| 9.08" / 230.6 mm                   |
| 11.94" / 303.3 mm                  |
| 2.43" / 61.7 mm                    |
| COM option adds 0.5" / 13 mm depth |
| -10 to 60°C                        |
| 5 to 95%                           |
| UL Class 1 Div II, CE              |
| UL Type 1, 3R, 4, 4x, 12, 12k, 13  |



| XL15 Prime                             |
|----------------------------------------|
| 2MB                                    |
| 0.02mS/K                               |
| microSD                                |
| Yes                                    |
| Yes                                    |
| Yes                                    |
| 1024 x 768 (XGA)                       |
| 15" TFT Colour                         |
| Selectable Fonts                       |
| 1023                                   |
| 1023                                   |
| 8 (on screen)                          |
| 7 (on screen)                          |
| No                                     |
| 22 - 44                                |
| CsCAN & Ethernet                       |
| 2048 / 2048                            |
| 512 / 512                              |
| 50,000                                 |
| 32768 (16384 retentive)                |
| Standard, 2 Ports                      |
| HTTP or EnvisionRV                     |
| FTP or EnvisionFX                      |
| Yes                                    |
| 3                                      |
| RS-232 & RS-485; RS-232 / RS-485       |
| Yes                                    |
| Yes                                    |
|                                        |
| Datalog & Backup / Programming Only    |
| Standard, 2 Ports                      |
| 1640 ft.                               |
| Yes                                    |
| Yes                                    |
| 12.60" / 320.0 mm                      |
| 14.57" / 370.08mm                      |
| 4.08" / 103.6 mm                       |
| COM option adds 0.5" / 13 mm depth     |
| -10 to 60°C                            |
| 5 to 95%                               |
| UL Class 1 Div II, CE                  |
| UL Type 1, 3R, 4, 4x, 12, 12k, 13, ABS |