

OCS All-in-One Controllers

Product Catalog

www.hornerautomation.com



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MICRO OCS SERIES



INDUSTRY LEADING ALL-IN-ONE CONTROLLER

Our **Micro OCS** line of products introduces a series of fixed I/O controllers with exceptional performance and a streamlined ordering and pricing structure. These powerful and efficient controllers are well-suited to perform many of the same high-end applications as our popular XL series at the price point of an introductory component - value engineering hard at work.

The **Micro OCS** family of products incorporates a similar all-in-one construction as with the XL series. By providing a fixed array of I/O, however, the Micro OCS Series provides a streamlined approach to the market. Applications that do not require the power of the XL products are perfectly suited to our Micro OCS line of products.

POWERFUL, SECURE CSCAPE PROGRAMMING SOFTWARE

The **Micro OCS Series** (developed using a single, industry-recognized software platform, Cscape) combines graphical ladder logic programming, operator interface development, I/O configuration and network configuration. The user-friendly interface provides free form and drag & drop editor, as well as more than 100 functions to choose from. In addition to the Cscape Advanced Ladder offering, Cscape also supports the IEC 1131 programming languages.

From the Horner website, <u>hornerautomation.com</u>, download the Cscape software or software updates at no charge. This free service allows you to avoid costly licensing fees while always having the most up-to-date software version.

For a comparison guide of the OCS line of products, please **CLICK HERE** to visit our website.





X2 SPECIFICATIONS AND TECHNICAL INFORMATION















PHYSICAL CHARACTERISTICS

- 1 Function keys
- 2 USB mini-B port
- 3 High capacity microSD slot
- 4 DC outputs
- **5** DC inputs
- 6 Analog I/O
- **7** RS232/RS485 serial port
- 8 DC power
- 9 CAN port (via RJ45)

CONTROLLER		
CPU	32 Bit Arm	
Logic Scan Rate	1.2 mS/K	
Built-In Storage	16MB	
Removable Memory	32GB microSD	
Retentive Storage	32K Battery-Backed Ram	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	

USER INTERFACE		
Display Technology 2.2" Transflective with LED		
Resolution / Color	128 x 64, Monochrome	
Keypad	20 Key Domed Membrane	
CONNECTIVITY		

CONNECTIVITY		
1 Port with RS-232 and RS-485		
1 Programming		
1 Port 125K - 1 MB		

OPERATING SPECS. & STANDARDS		
Primary Power Range 24VDC +/- 10%		
Operating Temperature	-10° to 60° C	
Humidity	5 to 95% Non-Condensing	
Ratings	IP65, CE, UL Type 3R, 4, 4x, 12, 12k, 13	

PHYSICAL SPECIFICATIONS		
Dimensions	mm: 89.76 tall x 119.18 wide x 35.8 total depth in: 3.53 tall x 4.69 wide x 1.41 total depth	
Weight	270g / 9.5oz	
STANDARD ONBOARD I/O		
Total Digital Inputs	12 x 24VDC Sinking/Sourcing	
Analog Inputs	4 x 4-20mA	
Analog Outputs	2 x 4-20mA	
High Speed Inputs	4 @ 10kHz	
High Speed Outputs	2 @ 65kHz	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	
MODEL-DEPENDENT OUTPUTS		
HE-X2A	12 x 24VDC Sourcing 0.5A	
HE-X2R	6 x Relay 3A, 2 x Sinking 0.5A	

ACCESSORIES



HE-X2Starter



Starter Kit with 6 x Relay 3A, 2 x Sinking 0.5A

SmartStix Terminal Block I/O



X4 SPECIFICATIONS AND TECHNICAL INFORMATION











Ratings



CONTROLLER		
CPU	32 Bit Arm with Integrated Graphics	
Logic Scan Rate	0.4 mS/K	
Built-In Storage	16MB	
Removable Memory	32GB microSD	
Retentive Storage	128K Battery-Backed Ram	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL. SFC	

USER INTERFACE		
Display Technology	Wide 4.3" TFT Color 350 cd/m ²	
Resolution / Color	480 x 272, 65K Colors	
Touch Screen	Resistive	
CONNECTIVITY		

CONNECTIVITY		
Serial Ports	1 Port with RS-232 and RS-485	
USB Ports (Mini-B)	1 Programming	
Ethernet	10/100 Support with Auto MDIX	
CAN	1 Port 125K - 1 MB	
OPERATING SPECS. & STANDARDS		
Primary Power Range	24VDC +/- 20%	
Operating Temperature	-10° to 60° C	
Humidity	5 to 95% Non-Condensing	

PHYSICAL CHARACTERISTICS

- 1 Virtual function keys slide in from the right on command
- 2 USB mini-B port
- 3 High capacity microSD slot
- **4** DC outputs
- **5** DC inputs

- 6 Analog I/O
- **7** RS232/RS485 serial port
- 8 DC power
- 9 CAN port (via RJ45)
- 10 Ethernet LAN port

PHYSICAL SPECIFICATIONS			
Dimensions		wide x 31 total depth vide x 1.22 total depth	
Weight	280g	/ 10oz	
STA	STANDARD ONBOARD I/O		
Total Digital Inputs	12 x 24VDC Si	nking/Sourcing	
Analog Inputs	4 x 4-20mA, or 2 x RTD*		
Analog Outputs	2 x 4-20mA		
High Speed Inputs	4 @ 500kHz		
High Speed Outputs	2 @ 65kHz		
Remote I/O	All Models Support SmartRail, SmartBlock, Smart- Stix, SmartMod, various 3rd party I/O devices		
*A 3rd and 4th RTD channel is available if Analog Outputs are not used			
MODEL-DEPENDENT OUTPUTS			
HE-X4A	12 x 24VDC Sourcing 0.5A		
HE-X4R	6 x Relay 3A, 2 x Sinking 0.5A		
HE-X4Starter	Starter Kit with 6 x Relay 3A, 2 x Sinking 0.5A		
INPUTS/OUTPUTS MODEL OVERVIEW			
	MODEL R	MODEL A	
DC In	12	12	
DC Out	2	12	
Relays	6	-	
HS In	4	4	

IP65, UL Type 3R, 4, 4x, 12, 12k, 13





X5 SPECIFICATIONS AND TECHNICAL INFORMATION











8 9



Operating Temperature

Humidity (non-condensing)

10

PHYSICAL CHARACTERISTICS

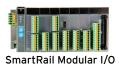
- 1 Virtual function keys slide in from the right on command
- 2 USB mini-B port
- 3 High capacity microSD slot
- 4 4 DC inputs, 4 analog inputs
- 5 RS232/RS485 serial port
- 6 USB A port
- **7** 4 DC outputs
- 8 Wide-range DC power
- 9 CAN port (via RJ45)
- 10 Ethernet LAN port

CONTROLLER			
Ladder Logic Memory	1MB		
Logic Scan Rate	0.013 mS/K		
Removable Memory	microSD*		
Digital I/O Max	2048 / 2048		
Analog I/O Max	512 / 512		
Primary Power Range	10-30VDC		
DISPLAY SPECIFICATIONS			
Characters/Pixels	480 x 272		
Display Technology	4.3" LCD with LED 450 nits		
Function Keys	4		
CONNE	CONNECTIVITY		
Total Active Ports	1 RS-232, 1 RS-485		
USB Ports (A and Mini-B)	Yes		
Ethernet	1 x 10/100 MHz Support with Auto MDIX Support		
PHYSICAL SPECIFICATIONS			
Dimensions	mm: 89.76 tall x 119.18 wide x 35.8 total depth in: 3.79 tall x 4.92 wide x 1.41 total depth		
Weight	270g / 9.52oz		
OPERATING SPECS. & STANDARDS			

STREAMLINED ONBOARD I/O		
Digital Inputs	4	12-24Vdc, HSC 500KHz MAX
Digital Ouputs†	4	0.5A @ 24Vdc, PWM 500KHz MAX
Analog Inputs	4 (12-bit)	0-20mA, 4-20mA, 0-10Vdc

FULLY SUPPORTED REMOTE I/O			
Digital Inputs	2048	Analog Outputs	512
Digital Outputs	2048	Gen. Purpose Registers (words)	8192 (1024 retentive)
Analog Inputs	512	Gen. Purpose Internal Coils (bits)	4096 (2048 retentive)

ACCESSORIES





SmartBlock Specialty I/O





HE-XCK Programming Cable Kit Includes USB Cable Ethernet Cable RS-232 Cable USB/RS-232 Adapter

*please refer to MAN1043-01-EN for size and format details †please refer to MAN1042-01-EN for wiring/installation details

-10° to 60° C

5 to 95%

SmartStix Terminal Block I/O



X7 SPECIFICATIONS AND TECHNICAL INFORMATION









CPU

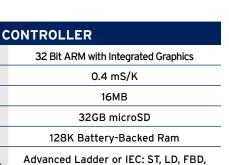
Logic Scan Rate

Built-In Storage

Removable Memory Retentive Storage

Programming Languages





IL, SFC

USER INTERFACE		
Display Technology	7" TFT Color 300 cd/m ²	
Resolution / Color	800 x 480, 65K Colors	
Touch Screen	Resistive	

CONNECTIVITY			
Serial Ports	1 Port with RS-232 and RS-485		
USB Ports (Mini-B)	1 Programming		
Ethernet	10/100 Support with Auto MDIX		
CAN	1 Port 125K - 1 MB		
OPERATING SPECS, & STANDARDS			

OPERATING SPECS. & STANDARDS		
Primary Power Range	24VDC +/- 20%	
Operating Temperature	-10° to 60° C	
Humidity	5 to 95% Non-Condensing	
Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13	

PHYSICAL CHARACTERISTICS

- Virtual function keys slide in from the right on command
- USB mini-B port
- High capacity microSD slot
- DC outputs



- Analog I/O
- RS232/RS485 serial port
- DC power
- CAN port (via RJ45)

5 DC inputs	10 Ethernet LAN port	
PHYS	SICAL SPECIFICATIONS	
Dimensions	mm: 143.50 tall x 186.08 wide x 52.88 total depth in: 5.65 tall x 7.33 wide x 2.08 total depth	
Weight	590g / 20.8oz	
STANDARD ONBOARD I/O		
Total Digital Inputs	12 x 24VDC Sinking/Sourcing	
Analog Inputs	4 x 4-20mA, or 2 x RTD*	
Analog Outputs	2 x 4-20mA	
High Speed Inputs	4 @ 500kHz	
High Speed Outputs	2 @ 65kHz	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	
*A 3rd and 4th RTD channel is available if Analog Outputs are not used		

MODEL-DEPENDENT OUTPUTS		
HE-X7A	12 x 24VDC Sourcing 0.5A	
HE-X7R	6 x Relay 3A, 2 x Sinking 0.5A	
HE-X7Starter	Starter Kit with 6 x Relay 3A, 2 x Sinking 0.5A	

TIE X7 Starter	Starter Kit With 6 x Kelay	SA, Z X Slitking 0.5A
INPUTS/OUTPUTS MODEL OVERVIEW		
	MODEL R	MODEL A
DC In	12	12
DC Out	2	12
Relays	6	-
HS In	4	4
HS Out	2	2
Analog In	mA x 4 or RTD* x 2	4
Analog Out	mA x 2	2
*A 3rd and 4th RTD channel is available if Analog Outputs are not used		
There are four high-speed inputs of the total DC Inputs. There are two high-speed outputs of the total DC outputs.		

Model A supports sourcing outputs. Model R DC outputs are sinking with integral pull up resistors.

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X10 SPECIFICATIONS AND TECHNICAL INFORMATION









CONTROLLER		
CPU 32-bit ARM with Integrated Graphics Cont		
Logic Scan Rate	0.4 mS/K	
Built-In Storage	16MB	
Removable Memory	Up to 32GB microSD	
Retentive Storage	128K Battery-Backed Ram	
Programming Languages	Advanced Ladder or Full IEC 61131-3 languages	

Programming Languages	languages	
US	ER INTERFACE	
Display Technology	10" Wide	
Resolution / Color	1024 x 600, 65K Colors	
Touch Screen	Resistive	
CONNECTIVITY		
Serial Ports 1 Port with RS-232 and RS-485		
USB Ports (Mini-B) USB 2.0 Programming only		
Ethernet	1x10Mbps/100Mbps	
CAN	125kB, 250kB, 500kB, 1 Mb	
OPERATING SPECS. & STANDARDS		
Primary Power Range 9 - 30VDC		
Operating Temperature	-10° to 60° C	
Humidity	5 to 95% Non-Condensing	

PHYSICAL CHARACTERISTICS

- Touchscreen
- 2 High Capacity MicroSD Slot
- 3 RS232/RS485 Serial Connector, CAN Port (via RJ45) Ethernet LAN Port



- 5 Analog I/O, DC Inputs, DC Outputs

4 USB mini-B por	t 6 DC Power	
PHYS	SICAL SPECIFICATIONS	
Dimensions	mm: 264.998 wide x 167.818 tall x 52.07 overall depth in: 10.433 wide x 6.607 tall x 2.05 overall depth	
Weight	590g / 20.8oz	
STANDARD ONBOARD I/O		
Total Digital Inputs	12 x 24VDC Sinking/Sourcing	
Analog Inputs	4 x 4-20mA, or 2 x RTD*	
Analog Outputs	2 x 4-20mA	
High Speed Inputs	4 @ 500kHz	
High Speed Outputs	2 @ 65kHz	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	
*A 3rd and 4th RTD	channel is available if Analog Outputs are not used	
MODEL-DEPENDENT OUTPUTS		
HE-X10A	12 x 24VDC Sourcing 0.5A	
HE-X10R	6 x Relay 3A, 2 x Sinking 0.5A	

*A 3rd and 4th RTD channel is available if Analog Outputs are not used		
MODEL-DEPENDENT OUTPUTS		
HE-X10A	12 x 24VDC Sourcing 0.5A	
HE-X10R	6 x Relay 3A, 2 x Sinking 0.5A	
INPUTS/OUTPUTS MODEL OVERVIEW		
	MODEL R	MODEL A
DC In	12	12
DC Out	2	12
Relays	6	-
HS In	4	4
HS Out	2	2
Analog In	mA x 4 or RTD* x 4	4
Analog Out	mA x 2	2
*A 3rd and 4th RTD channel is available if Analog Outputs are not used		

There are four high-speed inputs of the total DC Inputs. There are two high-speed outputs of the total DC outputs. Model A supports sourcing outputs. Model R DC outputs are sinking with integral pull up resistors.

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XL SERIES



INDUSTRY LEADING ALL-IN-ONE CONTROLLER

The **XL Series** provides the best all-in-one, affordable control solution for OEMs, integrators and endusers by combining a robust, reliable control product with an operator interface, I/O and networking into a single compact unit. The XL series is designed to provide ease of use, cost savings and flexibility for all operations, no matter the application.

CONNECTIVITY

The **XL 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 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.

For a comparison guide of the OCS line of products, please **CLICK HERE** to visit our website.





XLEe SPECIFICATIONS AND TECHNICAL INFORMATION















PHYSICAL CHARACTERISTICS

- 1 DIN rail mounting clip
- Wide-range DC power
- 3 CAN port
- 4 Ethernet LAN Port (optional)
- 5 High capacity microSD slot
- 6 RS232/RS485 serial ports
- 7 USB mini-B port
- 8 Transflective LCD screen
- 9 Programmable soft keys
- 10 Numeric / Function keys

CONTROLLER		
СРИ	High Performance 32 Bit Arm with DSP and FPU Acceleration	
Logic Scan Rate	0.7 mS/K	
Built-In Storage	16Mb	
Removable Memory	32GB microSD	
Retentive Storage	32K Battery-Backed Ram	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	
USER INTERFACE		

USER INTERFACE	
Display Technology 2.2" Transflective LCD	
Resolution / Color	128 x 64, Monochrome
Keypad	20 Key Domed Membrane
CONNECTIVITY	
Serial Ports	2 Ports with RS-232 and RS-485
Serial Ports USB Ports (Mini-B)	2 Ports with RS-232 and RS-485 1 Programming
2011011 2110	

STANDARD	ETHERNET	I/O MODELS
HE-XE100	HE-XE1E0	No Built-in I/O
HE-XE102	HE-XE1E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In
HE-XE103	HE-XE1E3	12 DC in, 12 DC Out, 2 - 12-bit Analog In
HE-XE104	HE-XE1E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In
HE-XE105	HE-XE1E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out
HE-XE106	HE-XE1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out
Remo	te I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices
OPERATING SPECS & STANDARDS		

5. Environ 5. E55. & 517.1157.1155	
Primary Power Range	10-30VDC
Power	1-5W (depending on model/configuration)
Operating Temperature	-10° to 60° C
Humidity (non-condensing)	5 to 95% Non-Condensing
Environmental Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13

PHYSICAL SPECIFICATIONS

Dimensions mm: 96.0 tall x 96.0 wide x 57.5 deep in: 3.78 tall x 3.78 wide x 2.26 deep



XLTe SPECIFICATIONS AND TECHNICAL INFORMATION











CAN





PHYSICAL CHARACTERISTICS

- 1 DIN rail mounting clip
- Wide-range DC power
- 3 CAN port
- 4 Ethernet LAN Port (optional)
- 5 High capacity microSD slot
- 6 RS232/RS485 serial ports
- **7** USB mini-B port
- 8 Transflective LCD touchscreen
- 9 Function keys

CONTROLLER		
СРИ	High Performance 32 Bit Arm with DSP and FPU Acceleration	
Logic Scan Rate	0.8 mS/K	
Built-In Storage	16Mb	
Removable Memory	32GB microSD	
Retentive Storage	32K Battery-Backed Ram	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	
US	ER INTERFACE	
Display Technology	3.5" Transflective LCD	
Resolution / Color	160 x 128, Monochrome	
Keypad	5 Key Domed Membrane	
CONNECTIVITY		
Serial Ports	2 Ports with RS-232 and RS-485	
USB Ports (Mini-B)	1 Programming	
Ethernet	10/100 Support with Auto MDIX Support (optional)	

STANDARD	ETHERNET	I/O MODELS
HE-XT100	HE-XT1EO	No Built-in I/O
HE-XT102	HE-XT1E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In
HE-XT103	HE-XT1E3	12 DC in, 12 DC Out, 2 - 12-bit Analog In
HE-XT104	HE-XT1E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In
HE-XT105	HE-XT1E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out
HE-XT106	HE-XT1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out
Remo	te I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices
OPERATING SPECS. & STANDARDS		
Primary	Power Ran	ge 10-30VDC
F	Power	1-5W (depending on model/configuration)

Primary Power Range	10-30VDC	
Power	1-5W (depending on model/configuration)	
Operating Temperature	-10° to 60° C	
Humidity (non-condensing)	5 to 95% Non-Condensing	
Environmental Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13	
DUVCICAL CRECIFICATIONS		

PHYSICAL SPECIFICATIONS

Dimensions mm: 96.0 tall x 96.0 wide x 57.5 deep in: 3.78 tall x 3.78 wide x 2.26 deep

1 Port 125Kb - 1Mb









XL4 SPECIFICATIONS AND TECHNICAL INFORMATION













- Touchscreen
- 2 Function Keys
- 3 High Capacity MicroSD Slot
- **4** Configuration Switches
- 5 USB Mini-B Port
- 6 Wide-Range DC Power
- 7 CAN Port
- 8 Ethernet LAN Port
- 9 USB A Port
- 10 RS232/RS485 Serial Port

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	SCIENCE OCONO CONTROL OCONO CO	6
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CAN

CONTROLLER		
CPU Single Core Arm		
0.013ms/kB		
128MB		
microSD		
256kB		
Advanced Ladder or Full IEC 1131-3 languages		
ER INTERFACE		
3.5" TFT Transmissive Color (640 nits)		
QVGA 320x240 • 16-bit (65,535)		
5 function keys		
CONNECTIVITY		
1 with RS-232 and RS-485 on single Modular Jack		
USB 2.0 (480MHz) Programming & Data Access		
10/100Mb (Auto MDX) Modbus TCP C/S, HTTP, FTP, SMTP, Cscape		

HE-XC1E0		No Built-in I/O
HE-XC1E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In	
HE-XC1E3	12 DC in, 12 DC Out, 2 - 12-bit Analog In	
HE-XC1E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In	
HE-XC1E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out	
HE-XC1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	
0	PERATING S	SPECS. & STANDARDS
	PERATING S	SPECS. & STANDARDS 10-30VDC
Primary P		
Primary P	ower Range	10-30VDC
Primary P Operating Humidity (no	ower Range Temperature	10-30VDC -10° to 60°C
Primary P Operating Humidity (no	ower Range Temperature n-condensing) tings	10-30VDC -10° to 60°C 5 to 95%
Primary P Operating Humidity (no Rat	ower Range Temperature n-condensing) tings	10-30VDC -10° to 60°C 5 to 95% IP65, UL Type 3R, 4, 4x, 12, 12k, 13, ABS
Primary P Operating Humidity (no Rat	ower Range Temperature n-condensing) tings PHYSICAL	10-30VDC -10° to 60°C 5 to 95% IP65, UL Type 3R, 4, 4x, 12, 12k, 13, ABS - SPECIFICATIONS mm: 96 x 96 x 57.5

I/O MODELS

Remote I/O, Peer-to-Peer Comms, Cscape







Groups A, B, C, D

EXL6 SPECIFICATIONS AND TECHNICAL INFORMATION













PHYSICAL CHARACTERISTICS

- Touchscreen
- Function Keys
- 3 USB 2.0 "A": Flash Drive
- 4 LAN Port
- 5 PWR: 10-30VDC In
- 6 CAN Port
- **7** MJ3: RS-232/485
- 8 Dip Switches
- 9 MJ1/MJ2: RJ45 Serial Port t
- 10 MicroSD: Data Storage
- 11 USB mini "B": Programming

CONTROLLER		
CPU	Single Core Arm	
Logic Scan Rate	0.013ms/kB	
Built-In Storage	128MB	
Removable Memory	microSD	
Retentive Storage	256kB	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	
USER INTERFACE		
Display Technology	5.77" VGA TFT, 450 cd/m²	
Resolution / Color	640 x 480	

Keypad	6 (5 function keys)	
CONNECTIVITY		
Serial Ports	3 with RS-232 and RS-485	
USB Ports (A and Mini-B)	1 Host, 1 Programming	
Ethernet	Single 10/100 Support with Auto MDIX Support	
CAN	1 Port 125kb - 1Mb	

I/O MODELS		
HE-EXL1EO	No Built-in I/O	
HE-EXL1E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In	
HE-EXL1E3	12 DC in, 12 DC Out, 2 - 12-bit Analog In	
HE-EXL1E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In	
HE-EXL1E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out	
HE-EXL1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	

Smart Strx, Smart Mod, various Sra party 170 devices		
OPERATING SPECS. & STANDARDS		
Primary	Power Range	18-30VDC
Operatin	g Temperature	-10° to 60°C
Humidity (ı	non-condensing)	5 to 95%
R	atings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13
PHYSICAL SPECIFICATIONS		
Dimensio	ns (W x H x D)	mm: 1861x1.43.6x77 in: 7.326 x 5.66 x 3.03
V	Veight	1.12 lbs or 508g
·		









EXLW SPECIFICATIONS AND TECHNICAL INFORMATION











PHYSICAL CHARACTERISTICS

- Touchscreen
- 2 USB 2.0 "A": Flash Drive
- 3 LAN Port
- 4 PWR: 10-30VDC In
- **5** CAN Port
- 6 MJ3: RS-232/485
- 7 Dip Switches
- 8 MJ1/MJ2: RJ45 Serial Port t
- 9 MicroSD: Data Storage
- 10 USB mini "B": Programming

I/O MODELS

CONTROLLER		
CPU	Single Core Arm	
Logic Scan Rate	0.013mS/kB	
Built-In Storage	128MB	
Removable Memory	microSD	
Retentive Storage	256kB	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	
USER INTERFACE		
Display Type	7" TFT Color	
Resolution / Color	800 x 480	
CONNECTIVITY		
Serial Ports	3 with RS-232 and RS-485	
USB Ports (A and Mini-B)	1 Host, 1 Programming	
Ethernet	Single 10/100 Support with	

CAN

HE-EXLWEO		No Built-in I/O
HE-EXLWE2	12 DC in, 6 Re	elay Out, 4 - 12-bit Analog In
HE-EXLWE3	12 DC in, 12	DC Out, 2 - 12-bit Analog In
HE-EXLWE4	24 DC in, 16	DC Out, 2 - 12-bit Analog In
HE-EXLWE5		C Out, 2 - 14/16-bit Analog In //RTD), 2 - 12-bit Analog Out
HE-EXLWE6	· ·	C Out, 6 - 14/17-bit Analog In //RTD), 4 - 12-bit Analog Out
OPERATING SPECS. & STANDARDS		
Primary Power Range 10-30VDC		
Operating Temperature -10° to 60°C		
Humidity (non-condensing)		5 to 95%
Ratings IP65, UL Type 1, 3R, 4, 4x, 12,		IP65, UL Type 1, 3R, 4, 4x, 12, 12k, 13
PHYSICAL SPECIFICATIONS		
Dimensions (W x H x D)		mm: 186.1 x 143.8 x 77 in: 7.326 x 5.66 x 3.03
Weight		1.58 lbs or 721.2 g

Auto MDIX Support

1 Port 125kb - 1Mb







Class I, Division 2 Groups A, B, C, D

XL7 SPECIFICATIONS AND TECHNICAL INFORMATION



















- Touchscreen
- **Function Keys**
- MJ1: RS232/ MJ2: 1/2 duplex RS485
- Dip Switches
- 5 MJ3: RS-232/485 Serial Port
- 6 CAN 1 Port
- **7** Power: 10 30VDC In
- 11 CAN 2 Port
- 8 Audio In & Out Ports
- **12** USB mini "B":
- USB 2.0 "A": Flash Drive
- Programming
- 10 LAN1&2 Ports
- 13 microSD: Data Storage

CONTROLLER		
CPU	Single Core Arm	
Logic Scan Rate	0.013ms/kB	
Built-In Storage	128MB	
Removable Memory	microSD	
Retentive Storage	256kB	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	

USER INTERFACE		
Display Technology	7" TFT, 800 cd/m²	
Resolution / Color	800 x 480	
Keypad	6 function keys	
CONNECTIVITY		
1 with DC 222 and DC 405 an first		

CONNECTIVITY		
Serial Ports	1 with RS-232 and RS-485 on first Modular Jack (M1/2) 1 RS-232 or 1 RS 485 on second Modular Jack (MJ-3)	
USB Ports (A and Mini-B)	1 Host, 1 Programming	
Ethernet	Dual 10/100 Support with Auto MDIX Support	
CAN	2 CAN Ports 125kb - 1Mb	

I/O MODELS		
HE-XW1EO	No Built-in I/O	
HE-XW1E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In	
HE-XW1E3	12 DC in, 12 DC Out, 2 - 12-bit Analog In	
HE-XW1E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In	
HE-XW1E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out	
HE-XW1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out	
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices	
OBEDATING SPECS S STANDARDS		

Primary Power Range	10-30VDC	
Operating Temperature	-10° to 60°C	
Humidity (non-condensing)	5 to 95%	
Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13, ABS	
PHYSICAL SPECIFICATIONS		
Dimensions (W x H x D)	mm: 210.06 x 143.76 x 43.94 in: 8.27 x 5.66 x 1.73	

59 South State Ave., Indianapolis, IN 46201 | (p) 317.916.4274 (tf) 877.665.5666 (f) 317.639.4279 | www.hornerautomation.com







Groups A, B, C, D

EXL10 SPECIFICATIONS AND TECHNICAL INFORMATION







- Touchscreen
- 2 Function Keys
- 3 Audio Out/In
- 4 USB 2.0 "A": Flash Drive
- 5 LAN1 Port
- 6 LAN2 Port
- 7 Built-in I/O
- 8 MJ1/MJ2: RS-232 & 1/2 Duplex RS-485
- 9 Dip Switches



- **10** MJ3: RS-232/485
- 11 CAN1: CAN I/O & Fieldbus Port
- 12 Power: 10 30VDC In
- 13 microSD: Data Storage
- 14 USB mini "B": Programming
- 15 CAN2: CAN I/O and FieldBus Port

CONTROLLER		
CPU	Single Core Arm	
Logic Scan Rate	0.013ms/kB	
Built-In Storage	128MB	
Removable Memory	microSD	
Retentive Storage	256kB	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	
USER INTERFACE		
Display Technology	10.4" VGA TFT, 550 cd/m ²	
Resolution / Color	640 x 480	
Keypad	8 keys (7 function keys)	
CONNECTIVITY		
Serial Ports	3 with RS-232 and RS-485	
USB Ports (A and Mini-B)	1 Host, 1 Programming	
Ethernet	Dual 10/100 Support with Auto MDX Support	
CAN	2 CAN Ports 125kb - 1Mb	

I/O MODELS			
HE-EXV1EO		No Built-in I/O	
HE-EXV1E2	12 DC in, 6 Re	elay Out, 4 - 12-bit Analog In	
HE-EXV1E3	12 DC in, 12	DC Out, 2 - 12-bit Analog In	
HE-EXV1E4	24 DC in, 16	DC Out, 2 - 12-bit Analog In	
HE-EXV1E5	· ·	C Out, 2 - 14/16-bit Analog In //RTD), 2 - 12-bit Analog Out	
HE-EXV1E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out		
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices		
OPERATING SPECS. & STANDARDS			
	Primary Power Range 18-30VDC		
Primary	Power Range	18-30VDC	
•	Power Range g Temperature	18-30VDC -10° to 60°C	
Operatin			
Operatin Humidity (g Temperature	-10° to 60°C	
Operatin Humidity (g Temperature non-condensing) Ratings	-10° to 60°C 5 to 95%	
Operatin Humidity (g Temperature non-condensing) Ratings	-10° to 60°C 5 to 95% IP65, UL Type 3R, 4, 4x, 12, 12k, 13	





XL15+ SPECIFICATIONS AND TECHNICAL INFORMATION











PHYSICAL CHARACTERISTICS

- 1 Virtual function keys slide in from the right on command
- 2 USB mini-B port
- 3 High capacity microSD slot
- 4 Mini display port (future feature)
- **5** 3 RS232/RS485 serial ports
- 6 USB A ports (3)
- 7 Mic input / Audio output
- 8 Wide-range DC power
- 9 Dual CAN port
- 10 Dual Ethernet LAN port
- 11 Optional built-in I/O









CONTROLLER		
CPU	Dual Core ARM with Video Accelerators	
Logic Scan Rate	0.006 mS/K	
Built-In Storage	4GB	
Removable Memory	128GB microSD / 2TB USB	
Retentive Storage	512K Battery-Backed Ram	
Programming Languages	Advanced Ladder or IEC: ST, LD, FBD, IL, SFC	

USER INTERFACE		
Display Technology	15" TFT Color 500 cd/m ²	
Resolution / Color	1024 x 767 / 16 Million Colors	
Touch Screen	Resistive with Laminated Cover	
CONNECTIVITY		
Serial Ports	3 Ports with RS-232 and RS-485	
USB Ports (A and Mini-B)	3 Host, 1 Programming	
Ethernet	Dual 10/100/1000 Support with Auto MDIX Support	
CAN	Dual Isolated 125K - 1 MB	

I/O MODELS				
HE-XP7E0	No Built-in I/O			
HE-XP7E2	12 DC in, 6 Relay Out, 4 - 12-bit Analog In			
HE-XP7E3	HE-XP7E3 12 DC in, 12 DC Out, 2 - 12-bit Analog In			
HE-XP7E4	24 DC in, 16 DC Out, 2 - 12-bit Analog In			
HE-XP7E5	12 DC in, 12 DC Out, 2 - 14/16-bit Analog In (mA/V/Tc/mV/RTD), 2 - 12-bit Analog Out			
HE-XP7E6	12 DC in, 12 DC Out, 6 - 14/17-bit Analog In (mA/V/Tc/mV/RTD), 4 - 12-bit Analog Out			
Remote I/O	All Models Support SmartRail, SmartBlock, SmartStix, SmartMod, various 3rd party I/O devices			

OPERATING SPECS. & STANDARDS			
Primary Power Range	18-30VDC		
Operating Temperature	-10° to 60° C		
Humidity (non-condensing)	5 to 95%		
Ratings	IP65, UL Type 3R, 4, 4x, 12, 12k, 13		
PHYSICAL SPECIFICATIONS			
Dimensions	mm: 320 tall x 370 wide x 79 deep in: 12.6 tall x 14.6 wide x 3.1 deep		
Weight	3.46kg / 7.63lb		



RCC SERIES



LOWER COSTS, MORE OPTIONS, EASY-TO-USE

With fully integrated hardware and software, both the **RCC Series** and **XL Series** offer easier programming, installation, development and set-up. Our controllers have a small footprint and can easily retrofit into an existing system with little effort. Neither the XL nor the RCC products are 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.

For a comparison guide of the OCS line of products, please **CLICK HERE** to visit our website.





RCC SERIES

Simple Needs, Intuitive Design

Provides original equipment manufacturers (OEMs), integrators, and automation end-users with flexible, functional I/O and simple all-inone controller options without a built-in screen.



Agriculture

- Increase overall productivity
- Reduce energy consumption

Building Automation

- Improve occupant comfort
- Economical operation systems

Material Handling

- Minimize HMI inefficiencies
- Track/log/catalog data

Oil and Gas

- Maximize capacity utilization
- Maintain emission standards

Renewable Energy

- Data logging, remote access
- Sunlight and UV protection

Water/Wastewater

- Operate chlorination systems
- Station pump control

Flexibility Meets Functionality

The RCC series is smart enough to perfectly complement our OCS family and ideal for applications where a screenless controller is the best fit. RCC controllers also pair well with the remote capabilities of the Horner webOCS line of products.

The RCC controllers are equipped with a range of digital and analog inputs and outputs - providing users with superior I/O options for both Discrete and Process Applications.

Additionally, most RCCs contain RS-232 & RS-485, CAN and 10/100 Ethernet - which provides you with serial connectivity, I/O expansion, Ethernet communications and advanced functions such as e-mail and web serving.

Programming, Data Logging and Alerts

Use the RCC's built-in serial and Ethernet ports for Cscape programming. Utilize Horner's user-friendly, ladder-logic based PLC software, our IEC 6-1131 options, and application defined communications.

Data logging, application updates and advanced recipe handling are made easy via the built-in removable microSD™ memory card. Log process based on individual events or specific times; everything is completely customizable - create virtual black box functionality for your machine.

Versatility Meets Precision - Horner webOCS

Register RCC controllers with Horner webOCS products to monitor and control plant data from the palm of your hand. Published directly from the OCS Controller, the webOCS line allows the same or unique web pages to be monitored and controlled from your computer, tablet or other mobile device. Developed completely within our Cscape environment, webOCS allows for state-of-the-art HTML5 development without the need for web programming skills.





Ladder Logic Memory	128KB
Logic Scan Rate	0.013 mS/K
Ethernet Support	Standard
Local Comment Storage	Yes
Built-in I/O Points	24
Digital I/O Max	2048 / 2048
Analog I/O Max	512 / 512

1	
WebMI, HTTP or EnvisionRV	
No	
Standard	
4.370" / 111 mm	
4.567" / 116 mm	
1.411" / 35.84 mm	



Ladder Logic Memory	1024KB
Logic Scan Rate	0.013 mS/K
Ethernet Support	Standard
Local Comment Storage	Yes
Built-in I/O Points	24
Digital I/O Max	2048 / 2048
Analog I/O Max	512 / 512

Serial Ports	2	
Remote Access	WebMI, HTTP or EnvisionRV	
USB Ports (A & Mini-B)	No	
Integrated CsCan Network	Standard	
Height (inches/mm)	4.370" / 111 mm	
Width (inches/mm)	4.567" / 116 mm	
Depth (inches/mm)	1.411" / 35.84 mm	

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Ladder Logic Memory	1024KB
Logic Scan Rate	0.013 mS/K
Ethernet Support	Standard
Local Comment Storage	Yes
Built-in I/O Points	22
Digital I/O Max	2048 / 2048
Analog I/O Max	512 / 512

Serial Ports	2
Remote Access	WebMI, HTTP or EnvisionRV
USB Ports (A & Mini-B)	No
Integrated CsCan Network	Standard
Height (inches/mm)	4.370" / 111 mm
Width (inches/mm)	4.567" / 116 mm
Depth (inches/mm)	1.411" / 35.84 mm

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Ladder Logic Memory	1024KB
Logic Scan Rate	0.013 mS/K
Ethernet Support	Standard, 2 Ports
Local Comment Storage	Yes
Built-in I/O Points	11
Digital I/O Max	2048 / 2048
Analog I/O Max	512 / 512

Serial Ports	2
Remote Access	WebMI, HTTP or EnvisionRV
USB Ports (A & Mini-B)	Yes
Integrated CsCan Network	Standard
Height (inches/mm)	4.370" / 111 mm
Width (inches/mm)	4.567" / 116 mm
Depth (inches/mm)	1.411" / 35.84 mm

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RCC	Real Time Clock	DC In 12/24 VAC	DC Out 24 VDC	Analog In 0-20mA	Analog Out 0-20mA	Gen. Purpose Registers (words)	Gen. Purpose Internal Coils (bits)
972	no	8	4	8	4	4096	2048 (1024 retentive)
8842	yes	8	8	4	2		32768 (16384 retentive)
2414	yes	2	4	1	4	49999	
1410	yes	14	10	-	-		





RCC6512

High-speed Remote I/O & Advanced Co-Processor

The RCC6512 is a versatile product to handle high speed applications. This device combines a control co-processor along with high-speed digital and analog I/O with integrated networking.



- Control Co-Processor programmed in Cscape
- Hardware high-speed I/O accelertor for handling high-speed inputs and outputs
- Eight high-speed counters that support totalizing, frequency, counting, pulse width measurement, period measurement or guadrature
- Ten sourcing high-speed outputs. Eight of which can be used as PWM signals
- Programmable input threshold for zero cross, 5V, 12V and 24V signals
- Programmable input filtering for 500kHz, 50kHz, and 5kHz

POWERFUL CO-PROCESSOR

The RCC6512 is designed as an add-on co-processor to any application requiring advanced high-speed counting. The RCC6512 is programmed in Advanced Ladder using Cscape

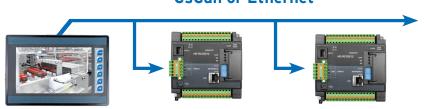
HIGH-SPEED INPUTS, HIGH-SPEED OUTPUTS

The RCC6512 is built around a FPGA chip which provides speed and flexibility for its generous complement of high-speed I/O. On the input side, up to 8 totalizers or 4 quadrature accumulators can be supported at frequencies up to 500kHz. Analog Filtering prevents spurious noise from interfering with legitimate signals for accurare counting. Digital outputs can be configured as either setpoint controlled outputs or PWM signals. Analog Outputs (+/- 10V) are provided with motor speed control in mind.

FLEXIBLE COMMUNICATIONS

The RCC6512 supports multiple connectivity options. The on-board Ethernet port (10/100Mbps) supports some of the most popular industrial ethernet protocols. These include Modbus TCP Server, Ethernet IP I/O Device and Ethernet Global Data (EGD). Horner's highly efficient CsCAN network is also onboard with its peer-to-peer architecture and superior noise immunity.

CsCan or Ethernet



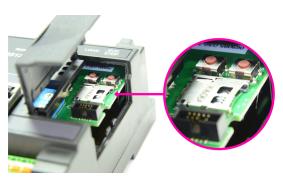
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RCC6512 General Specifications

Item	Specification	Item	Specification
Co-Processor Specifications		I/O Specifications	
Cscape Control Language	Advanced Ladder Logic	High-Speed DC Inputs	8 (5V/12V/24V) pos/neg
Logic Size & Scan Rate	16kB, 0.7,uS/kB	Maximum HSC Frequency	500kHz (5k/50k/500k filter)
Programming Ports	USB, RS-232, microSD	General Purpose DC Inputs	4 (24V) pos/neg
General Purpose Registers (words)	2048 (256 Retentive)	High-speed DC Output	8 (5V/12V/24V) pos 0.5A
General Purpose Bits	2048 (Non-Retentive)	Max Frequency	500kHz
Digital I/O Registers	512 Input & 512 Output	General Purpose DC Outputs	2 (5V/12V/24V) pos 0.5A
Analog I/O Registers	256 Input & 256 Output	Analog Inputs	2 (0-10V, 0-20mA)
Dimensions (maximum)	4.67"H x 4.57"W x 2.81"D	Resolution, Accuracy	12-bits, 1% full scale
Required Power (steady-state)	120mA @ 24Vdc	Input Impedance	V: 100kohm mA: 15ohm
Primary Power Range	10-28Vdc	Analog Outputs	4 (-10V to +10V)
Operating/Storage Temperature	-10C to +60C	Resolution, Accuracy	12-bits, 0.25% full scale
Relative Humidity	5-95% Non-condensing	Minimum Load	500ohm

Part Number	Description
SmartBlock Standard	
HE579MIX102	Isolated mixed Digital/Analog I/O module (12/6/4)
HE579RTD100	Isolated RTD Indut Module, 4 channel
HE579RTD200	Isolated RTD Input Module, 8 channel
HE579THM100	Isolated Thermocouple Input Module, 4 channel
HE579MIX577	Isolated Thermocouple Input Module, 8 channel
HE579MIX577	4 Analog Inputs, 2 Analog Outputs (0-10V, 0-5V,
	0-20mA, 4-20mA)
HE579MIX977	8 Analog inputs, 4 Analog Outputs (0-10V, 0-5V,
	0-20mA, 4-20mA)
HE579ADC570	6 Analog Inputs (0-10V, 0-5V 0-20mA, 4-20mA, and
	10 K thermistor)
HE579ADC970	SmartBlock 12x Analog In, +10, 4-20mA, Thermistor
HE579DAC107	4 Analog Outputs (0-10V, 0-5V, 0-20mA, 4-20mA)
HE579DAC207	8 Analog Outputs (0-10V, 0-5V, 0-20mA, 4-20mA)
HE579DIQ880	8 DC inputs and 8 relay outputs
HE579DIQ8881	8 DC inputs and 85 amp DC outputs
HE579MIX105	Isolated Mixed Digital/Analog I/O Module (12/12/2/2)
HE579ACM300	AC power Monitor (3-phase)
HE579ACM302	AC Power Monitor Using Rogowski Inputs



The RCC6512 features a microSD slot for data logging and maintenance functions.

Description

SmartBlock Open-style HE-RLT12 Replacement relay for HE569DQM212 HE-SSR04 Replacement SSR for HE69DQM204 GE-SSR05 Replacement SSR for HE69DQM205 HE569DQM209 8 High Current Direct Connect Relays HE569DQM212 8 High Current, Socketed Relays HE569DQM212-12 8 High Current, Socketed Relays, supports 12V relay coils HE569DQM204 8 High Current, Socketed SSRs (AC) HE569DQM205 8 High Current, Socketed SSRS (DC)

Part Number

Part Number

SmartStix Standard

HE559DIM610 HE559DIM710 HE559DQM602 HE559DQM606 HE559DQM706 HE559DIQ816

Description

16 DC Inputs (pos/neg)
32 DC Inputs (pos/neg)
16 Relay Outputs, 2A max
16 DC Outputs (pos) 0.5A max
32 DC Outputs (pos) 0.5A max
16 DC Inputs (pos/neg) &
16 DC Outputs (pos) 0.5A max



SmartStix Digital I/O can be used alongside SmartBlock I/O & the RCC6512 Co-processor.