## XL4 The Compact All-in-One Controller

## XL4 The World's Most Advanced 1/4 DIN All-in-one Controller

The XL4 All-in-One controller with a built-in 32,000 colour TFT touch screen, I/O-Modules, networking options, removable MicroSD<sup>™</sup> Card and USB ports. Programmable by Horner APG's industry recognised Cscape<sup>™</sup> software, XL4 can control a wide range of different processes and machines from small to medium applications.





For complete product details see www.horner-apg.com/xl4



# XL4 The Compact All-in-One Controller

### For a wide range of Application

As a compact, powerful controller, XL4 can be used in literally thousands of applications from Machines to Mobile and Process Control Applications. High-speed Ethernet, CANBus and Modbus options offer you the perfect networking mix.

#### **Model Selector**

Model: HEXT251	I/O Expansion	CANbus	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs		
C100	CANBus / Modbus / Ethernet	1 Port	Same features as other models but no I/O					
C112	C112 CANBus / Modbus / Ethernet		12 DC (4 HSC)	6 Relay	4 (12 bit)	No		
C113	CANBus / Modbus / Ethernet	Iodbus / Ethernet 1 Port		12 DC (2 PWM)	2 (12 bit)	No		
C114	CANBus / Modbus / Ethernet	1 Port	24 DC (4 HSC)	16 DC (2 PWM)	2 (12 bit)	No		
C115	CANBus / Modbus / Ethernet	1 Port	12 DC (4 HSC)	12 DC (2 PWM)	2 (14bit) Universal (T/C, RTD, mV,mA,V)	2 (12 bit)		

	General Specifications						
	Required Power	95 mA @ 24 VDC					
	(Steady state)	190 mA @ 12 VDC					
	Required Power	2A for <1 ms @ 24 VDC					
	(Inrush)	DC Switched					
	Primary Power Range	10 – 30 VDC					
	Relative Humidity	5 to 95% Non-condensing					
	Clock Accuracy	+/- 20 ppm maximum at 25° C					
		(+/- 1 Minutes per Month)					
Operating Temp		-10°C to +60°C					
Storage Temp		-30°C to +70°C					
	Weight	12 oz. (340 g)					
UL/CE	USA: http://www.heapg.cor	Operating Temp -10°C to +60°C   Storage Temp -30°C to +70°C   Weight 12 oz. (340 g)   GA: http://www.heapg.com/support/product-certifications/					
	Europe: http://www.horner-apg.com/en/support/certification.aspx						

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Storage Temp		-30°C to +70°C		General Purpose Registers		50,000 (words) Retentive	
	Weight	12 oz. (340 g)				16,384 (bits) Retentive	
/ CE	USA: http://www.heapg.com	m/support/product-certifications/				16,384 (bits) Non-retentive	
	Europe: http://www.horner-	apg.com/en/support/certification.aspx				·	
				Connectivity			
	Display S	pecifications		Serial Ports	1 RS-232 & 1 RS-	485 on single Modular Jack	
	Display Type	3.5" TFT Transmissive Colour	-	USB mini-B	USB 2.0 (480MHz) Programming & Data Access		
	Resolution	QVGA (320x240)	-	USB A	USB 2.0 (480MHz) for USB FLASH Drives (2TB)		
	Colour	16-bit (65,535)	-	CAN	Remote I/O, Peer-to-Peer Comms, Cscape		
	Screen Memory	64MB	-	Ethernet	10/100 Mb (Auto-MDX)		
User	-Programmable Screens				Modbus TCP C/S, HTTP, FTP, SMTP, Cscape		
	Backlight	ght LED – 50,000 hour life		Remote I/O	SmartRail, SmartStix, SmartBlock, SmartMod		
	Screen Update User Configurable within the scan time.			Removable Memory	MicroSD, support for 32GB max.		
	Rate				Application Update	es, Datalogging, more	

Input / Output Specifications							High-Speed Counters			
Model	DC In	DC Out	Relays	HS In	HS Out	mA/V	mA/V	mA/V	Number of Counters	2
						In	RTD/Tc	Out	Maximum Frequency	500kHz each
Model 2	12		6	4		4			Accumulator Size	32-bits each
Model 3	12	12		4	2	2			Modes Supported	
Model 4	24	16		4	2	2			Totalizer	Quadrature
Model 5	12	12		4	2		2	2	Pulse Meas.	Frequency Meas.
There are 4	here are 4 high-speed inputs of the total DC Inputs. There are 2 high-speed outputs of the total DC outputs. Model 2, 3 &							2 Position Controlled Outputs		
4 feature 12	feature 12-bit Analog I/O. Model 5 features 14-bit Analog I/O. High-speed Outputs can be used for PWM and Pulse Train						1 ON/OFF Setpoint per Output			
Outputs, cu	rrently limited	to 10 Khz (Hiahe	er Speeds Und	der Developm	ent) Check Web	for latest De	tails.			



#### Horner APG

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OCS combines Control, Operator Interface, I/O and Network - All in One

www.horner-apg.com Email: sales@horner-apg.com



Control & Logic Specifications

Advanced Ladder Logic Full IEC 61131-3 Languages

1MB, maximum

0.013mS/K

Supported in Advanced Ladder

Digital Inputs

**Digital Outputs** Analog Inputs

Analog Outputs

2048 2048

512

512

Control Language Support

Logic Program Size

& Logic Scan Rate

Online Programming Changes

I/O Support