



HORNER

AUTOMATION GROUP

CPU SERIES



VERSATILE & VALUE DRIVEN





DIN-rail mount modular controller with 12 built-in I/O and mini operator interface.



DIN-rail mount Modular Controller with Built-in I/O and Operator Interface. Local I/O expansion using OCS-I/O

CPU SERIES

Low-cost DIN controller with built-in I/O

Low-cost controller with built-in and expandable I/O and built-in wireless

FEATURES		CPU150		CPU151	
Controller	Controller Class (processor)	Micro (single-core)		Micro (single-core)	
	Logic Memory & Scan Rate	128 K @ 1.2 mS/K			
	Variables (Word-type/Bit-type)	5000 (1600 retentive)			
	External Storage	uSD for datalogging, program loading			
	Floating-Point Support/PID Loops	Yes (32-bit)/4 Loops			
Operator Interface	Graphics Class	System menu with configuration, diagnostics and I/O status			
	HMI Connect Touchscreen Sizes	-		-	
	HMI Connect Connection Type	-		-	
	HMI Connect Touchscreens (max.)	-		-	
I/O	Number of Pages/Objects per Page	-		-	
	Built-In I/O points, Total	8 DC In, 4 Relay		8 DC In, 8 DC Out, 2 Flex	
	Built-in High Speed I/O	2 In (500 kHz)		2 In (500 kHz) & 2 Out	
	Built-in Analog I/O	-		2 Flex In (4-20mA or 0-10V or DC)	
	Total I/O Memory	2048 Digital In/2048 Digital Out/512 Analog In/512 Analog Out			
	Local OCS-I/O Expansion	7 modules with expansion kit		7 modules	
Communications	Network OCS-I/O Expansion (max.)	-		8 bases x 7 modules	
	Number of Ethernet Ports	1 (10/100Mbps)			
	Standard Ethernet Protocols	EtherNet/IP (server), Modbus TCP (client/server), FTP (server)			
	Optional Ethernet Protocols	BACnet IP			
	Remote Access/Visualization	OCS360 Cloud Service			
	CAN Protocols	-		CsCAN	
	USB Ports	USB-C (programming only)			
	Serial Ports	-		Shared RJ45 with RS-485 (half-duplex) and RS232. Modbus/RTU (master/slave), ASCII & other protocols	
Physical Size & Mounting	Wireless	-		WiFi built-in - access point or client for programming, protocols or remote access/visualization	
	Typical Mounting Location	DIN-rail			
Operating Specifications	HeightxWidthxDepth (in/mm)	4.75" H x 1.53" W x 3.62" D / 120.85mm H x 39mm W x 92.1mm D			
	Supply Voltage	10-30VDC, 12/24VDC			
	Operating Temperature/RH%	-10° to 60°C / 5 to 95%, non condensing			
Environmental Rating		IP20			



DIN-rail mount Modular Controller without Built-in I/O or Operator Interface. Local I/O expansion using OCS-I/O



DIN-rail mount Modular Controller with 34 Built-in I/O points and no Operator Interface. Local I/O expansion using OCS-I/O

CPU SERIES

Modular controller

Modular controller with built-in I/O

FEATURES

CPU200

CPU250

Controller	Controller Class (processor)	
	Logic Memory & Scan Rate	
Operator Interface	Variables (Word-type/Bit-type)	
	External Storage	
I/O	Floating-Point Support/PID Loops	
	Graphics Class	
Communications	HMI Connect Touchscreen Sizes	
	HMI Connect Connection Type	
Physical Size & Mounting	HMI Connect Touchscreens (max.)	
	Number of Pages/Objects per Page	
Operating Specifications	Built-In I/O points, Total	
	Built-in High Speed I/O	
	Built-in Analog I/O	
	Total I/O Memory	
	Local OCS-I/O Expansion	
	Network OCS-I/O Expansion (max.)	
	Number of Ethernet Ports	
	Standard Ethernet Protocols	
	Optional Ethernet Protocols	
	Remote Access/Visualization	
	CAN Protocols	
	USB Ports	
	Serial Ports	
	Wireless	
	Typical Mounting Location	
	HeightxWidthxDepth (in/mm)	
	Supply Voltage	
	Operating Temperature/RH%	
	Environmental Rating	
	Micro (single-core)	
	2 MB @ 0.4 mS/K	
	50,000/32,768 (16,383 retentive)	
	uSD for datalogging, program loading, alarms	
	Yes (32-bit)/8 Loops	
	No Operator Interface Functionality Integrated	
	-	34 (8 DC In, 8 Flexible In, 10 DC Out, 8 Analog Out)
	-	4 In (500 kHz) & 2 Out
	-	0-8 In (4-20mA or 0-10V), 4 Out (4-20mA), 4 Out (0-10V)
	2048 Digital In/2048 Digital Out/512 Analog In/512 Analog Out	
	7 modules	
	16 bases x 7 modules	
	1 (10/100Mbps)	
	EtherNet/IP (server), Modbus TCP (client/server), FTP (server), SMTP (client)	
	BACnet IP	
	OCS360 Cloud Service, WebMI via HTML5, Envision RV	
	CsCAN (std), CANopen & SAE J1939 (opt)	
	USB-C (programming only)	
	Shared RJ45 with RS-485 (half-duplex) and RS232. Modbus/RTU (master/slave), ASCII & other protocols	
	-	-
	DIN-rail	
	4.5" H x 4.92" W x 1.97" D /114.4mm H x 124.9mm W x 50mm D	
	10-30VDC, 12/24VDC	
	-40° to 60°C / 5 to 95%, non condensing	
	IP20	



Modular Controller that offers flexible, standard graphics and strong logic performance, and supports add-on I/O and 34 built-in I/O



Modular All-in-one Controller with support for add-on HMI Connect touchscreen(s) and Canvas Graphics. Local I/O expansion using OCS-I/O

CPU SERIES

Higher performance controller with built-in I/O and HMI Connect

Full-featured Canvas controller with advanced systems

FEATURES

CPU260

CPU300

Controller	Controller Class (processor)	Prime (single-core)		Canvas (dual-core)	
	Logic Memory & Scan Rate	2MB @ 0.02 mS/K			
	Variables (Word-type/Bit-type)	50,000/32,768 (16,383 retentive)			
	External Storage	uSD or USB drives for datalogging, program loading, alarms, recipes			
	Floating-Point Support/PID Loops	Yes (64-bit)/16 Loops			
Operator Interface	Graphics Class	Prime Graphics via HMI Connect		Canvas Graphics via HMI Connect	
	HMI Connect Touchscreen Sizes	4", 7", 10.1", 15" (IP65/4X) & 7", 10.1" (IP67)			
	HMI Connect Connection Type	Graphics, Touch & Power in a single cable (≤8m)			
	HMI Connect Touchscreens (max.)	Three (3) Identical touchscreens, using optional accessory			
	Number of Pages/Objects per Page	1023/1023			
I/O	Built-In I/O points, Total	34 (8 DC In, 8 Flexible In, 10 DC Out, 8 Analog Out)		No Built-in I/O	
	Built-in High Speed I/O	4 In (500 kHz) & 2 Out			
	Built-in Analog I/O	0-8 In (4-20mA or 0-10V), 4 Out (4-20mA), 4 Out (0-10V)			
	Total I/O Memory	2048 Digital In/2048 Digital Out/512 Analog In/512 Analog Out			
	Local OCS-I/O Expansion	7 modules			
	Network OCS-I/O Expansion (max.)	16 bases x 7 modules			
Communications	Number of Ethernet Ports	1 (10/100Mbps)		2 (10/100Mbps)	
	Standard Ethernet Protocols	EtherNet/IP (server), Modbus TCP (client/server), FTP (server), SMTP (client)		All Protocols listed on chart are standard	
	Optional Ethernet Protocols	BACnet IP, MQTT Sparkplug, EtherNet/IP Scanner			
	Remote Access/Visualization	OCS360 Cloud Service, WebMI via HTML5, Envision RV			
	CAN Protocols	CsCAN, CANopen & SAE J1939 (std)			
	USB Ports	USB-C (programming only)		USB-C (prgm) & USB-A (host)	
	Serial Ports	Shared RJ45 with RS-485 (half-duplex) and RS232. Modbus/RTU (master/slave), ASCII & other protocols			
	Wireless	-		Optional WiFi accessory - access point or client for programming, protocols or remote access/visualization	
Physical Size & Mounting	Typical Mounting Location	DIN-rail with Add-On HMI Connect touchscreen remote			
	HeightxWidthxDepth (in/mm)	4.5" H x 4.92" W x 1.97" D / 114.4mm H x 124.9mm W x 50mm D		4.63" H x 4.52" W x 2.92" D / 117.5mm H x 114.8mm W x 74.3mm D	
Operating Specifications	Supply Voltage	10-30VDC, 12/24VDC			
	Operating Temperature/RH%	-40° to 60°C / 5 to 95%, non condensing		-10° to 60°C / 5 to 95%, non condensing	
	Environmental Rating	IP20 (HMI Connect touchscreens carry IP65/4X or IP67)			

FLEXIBLE. EFFICIENT. ESSENTIAL.

Packing a Lot of Flexibility & Performance into a Small Package

The OCS-I/O lineup of modular and expansion I/O has been extremely popular with our customers. When we started creating these products several years ago, we had a vision far beyond remote and expansion I/O. The lineup now includes full control capabilities with our new CPUs!

CPU150 & CPU151

The CPU150 and CPU151 bring PLC-class control, expandable I/O, built-in HMI, and cloud connectivity into one compact device – making them an ideal replacement for smart relays and entry-level PLCs. They include a 1.4" color touchscreen, comprehensive communication options, flexible I/O expansion capabilities, and advanced connectivity.

CPU250

The CPU250 is Horner's Micro series equivalent for the new CPUs. Serial, Ethernet and CAN communications are available as standard, as well as support for WebMI for remote monitoring and control (one-time upgrade required). For programming, USB-C is featured - but you can always use Ethernet or even Micro SD to perform laptop-free program loading. The real star of the Micro CPU250 is its onboard I/O. Thirty-four (34) points are built-in, with as many as sixteen (16) available as analog. You can add up to seven (7) local OCS-I/O modules to the side of the CPU250 for further expansion! Also available is a **CPU200** model which is identical other than its lack of onboard I/O - its I/O is strictly via local OCS-I/O.

CPU260 (coming soon)

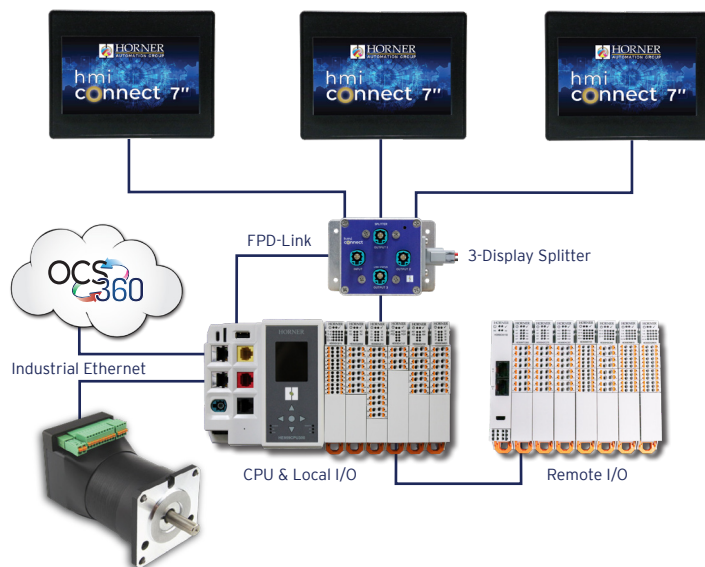
The CPU260 is a modular controller with the performance of an XL Prime, and support for add-on HMI Connect touchscreen(s). It includes 34 built-in I/O points and local I/O expansion using OCS-I/O. It extends the CPU250's exceptional I/O and port density—unmatched at this size and price point—with the addition of an integrated HMI Connect port, enabling scalable display integration without added complexity.

CPU300

With the innovative CPU300, this product is a true modular controller - including Canvas graphics. On its face, it looks like a traditional PLC - with capabilities including local logic, expansion I/O (via OCS-I/O), and a full array of communications ports including two Ethernet. But don't be fooled - the CPU300 includes logic and graphics and programs using Cscape 10 to a single application file. With the onboard screen strictly for diagnostics - where is the operator interface you ask? With Horner's new HMI Connect touchscreen components (requiring no program or configuration) - they can be located wherever you want them! Connecting via a single, robust cable - HMI Connect touchscreens are available in sizes ranging from 4" to 15", with environmental ratings from IP65/NEMA 4X to IP67. The CPU300 and HMI Connect combine to create the first truly modular All-in-one controller. The CPU300 also includes all Canvas features and protocols as standard.

Compatible with OCS-I/O for Expansion I/O, and HMI Connect Touch Displays for Screen Capabilities.

What makes Modular Controllers innovative? The headline feature is the ability to "unbolt" the HMI Touchscreen from the All-in-one Controller - mounting it remotely and treating it purely as a hardware component requiring absolutely no setup. These HMI Connect displays simply connect to the Modular Controller using a rugged, 4-pin cable (8m, max) with power, video and touch feedback. If multiple screens are desired - connect an HMI Connect splitter between the CPU and the displays. HMI Connect is powered using automotive technology - NOT consumer technology - ensuring long, reliable operation. HMI Connect touchscreens are available in both IP65/NEMA 4X and IP67 models in sizes from 4" to 15".





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