



HORNER

AUTOMATION GROUP

OCS-I/O



**Highly Expandable & Flexible
I/O Solutions for Horner PLCs**



Compliant

BASES

HE959CNX100

CsCAN Base with no onboard I/O

The CNX100 provides the base connection for adding OCS-I/O modules to a CsCAN network. It is ideal when the application needs remote or expandable I/O, but all I/O points will be added through separate modules.



HE959CNX116

CsCAN Base with onboard I/O

The CNX116 combines the CsCAN I/O base with a small set of built-in I/O, including flexible inputs, digital outputs, a universal analog input, and an analog output. It is a good starting point for compact systems that need a mix of basic I/O plus room for expansion.



OCS-I/O requires a CNX base or a CPU can be used as a base



HE959DIM610

16 DC In

The DIM610 adds 16 DC input points for monitoring switches, sensors, pushbuttons, proximity sensors, and other 12-24 VDC field devices. It is commonly used when a machine or panel needs to bring many discrete status signals into the controller.



HE959DIM620

8 AC Inputs (120-160VAC)

The DIM620 is used to monitor AC input signals from field devices operating in the 120 VAC range. It is useful when integrating with existing AC control circuits, limit switches, or equipment status signals.



HE959DIQ512

4 DC In + 4 Relay Out (3A)

The DIQ512 provides a balanced mix of DC inputs and relay outputs for applications that need to monitor DC signals and switch higher-voltage or isolated loads. It is well suited for smaller machines, control panels, or auxiliary equipment.



EXPANDABLE & FLEXIBLE MODULAR I/O

OCS-I/O modules allow users to expand an OCS system with the exact mix of digital, analog, relay, temperature, and high-speed I/O required for the application. Modules connect through a CNX base or compatible OCS CPU, making it easy to build compact local I/O or distributed machine-control systems.

DIGITAL

HE959DIQ616

8 DC In + 8 DC Out

The DIQ616 combines DC inputs and DC outputs in one module, making it a practical choice for compact machine control. It can monitor field devices while also driving small DC loads such as indicators, interposing relays, or solenoids.



HE959DQM606

16 DC Out

The DQM606 adds 16 DC output points for driving 24 VDC devices such as indicator lights, relays, valves, and small actuators. It is a good fit when the application needs a high number of discrete outputs in a compact I/O system.



HE959DQM502

4 Relay Outputs (5A)

The DQM502 offers higher-current relay outputs for applications that need fewer but more robust switched outputs. It is useful for driving larger loads, interposing relays, contactors, or other devices requiring higher switching capacity.



HE959HSC840

8 High Speed In + 4 High Speed Out

The HSC840 is designed for high-speed counting, measurement, motion-related signals, and fast output control. It can be used with encoders, flow meters, pulse inputs, PWM outputs, PTO outputs, and stepper-style applications.



HE959DQM602

8 Relay Out (2A)

The DQM602 provides relay outputs for switching AC or DC loads where isolation or higher voltage switching is required. It is commonly used for contactors, alarms, pilot devices, and other loads that are not suited for transistor outputs.



ANALOG

HE959ADU100

4 Universal Analog Inputs (mA/V/Thermocouple/RTD)

The ADU100 provides flexible analog input capability for temperature and process measurement. It supports common analog signals as well as thermocouples and RTDs, making it a strong choice for machines with mixed sensor types.



HE959DAC207

8 Analog Out (0-10V, 4-20mA)

The DAC207 provides eight analog output channels for controlling variable-speed drives, proportional valves, actuators, or other devices that accept 0-10 V or 4-20 mA command signals. It is useful when a system needs to control several analog devices from one module.



HE959ADC270

8 Analog In (0-10V, 4-20mA)

The ADC270 adds eight analog input channels for measuring process signals such as pressure, level, flow, temperature transmitters, or other 0-10 V and 4-20 mA devices. It is ideal when multiple analog measurements need to be brought into the OCS system.



HE959MIX105

4 DC In + 4 DC Out + 4 Analog In (4-20mA) + 2 Analog Out (4-20mA)

The MIX105 combines digital inputs, digital outputs, analog inputs, and analog outputs in one compact module. It is well suited for applications that need a little bit of everything without adding several separate I/O modules.



HE959DAC107

4 Analog Outputs (+/- 0-10VDC, 4-20mA)

The DAC107 adds four analog output channels for controlling process devices such as drives, valves, and actuators. It is a good option when only a smaller number of analog control signals are needed or +/- 10V signals are required.



HE959NTC800

8-10k Ω Thermistor Inputs

The NTC800 is designed for temperature measurement using 10k thermistor sensors. It is useful for HVAC, refrigeration, environmental monitoring, and machine applications where multiple temperature points need to be monitored economically.



OCS-I/O packs a lot of flexibility, capability, and expandability in a small package that makes it the perfect complementary CsCAN solution for OCS platforms.

Maybe You Only Need One More...

Sometimes you only need a little bit. Start with the CNX116 - which includes I/O right on the base! Meant as the perfect small amount of complementary I/O, the CNX116 gives you (2) **Flexible Inputs** (Digital or 12-bit Analog), (2) **Digital Outputs**, (1) 16-bit **Universal Analog Input** and (1) 12-bit **Analog Output** right onboard. Yes, you read that correctly - two inputs that can be used for either digital or analog signals, giving it up to 3 analog inputs without even needing another module!

...Or Maybe You Need A Lot

With expandability up to 7 modules per base and 16 bases per network, OCS-I/O can handle almost any amount of I/O needs. It even includes a CsCAN In and CsCAN Out port to allow you to easily daisy-chain multiple bases without requiring a lot of custom wiring.

Part Number	Description
HE959CNX116	CsCAN Base for up to 7 I/O Modules. Includes Onboard I/O of 2 Flexible Inputs (DI or AI), 2DO, 1 Univ. AI, 1 AO
HE959CNX100	CsCAN Base with No Onboard I/O
HE959ADU100	4 Universal Analog Inputs (mA/V/Thermocouple/RTD)
HE959DIQ616	8 DC In + 8 DC Out
HE959DQM502	4 Relay Outputs (5A)
HE959DAC107	4 Analog Outputs ($\pm$ 0-10VDC, 4-20mA)
HE959DIQ512	4 DC In + 4 Relay Out (3A)
HE959DIM620	8 AC Inputs (120-160 VAC)
HE959DIM610	16 DC In
HE959DQM606	16 DC Out
HE959DQM602	8 Relay Out (2A)
HE959MIX105*	4 DC In + 4 DC Out + 4 Analog In (4-20mA) + 2 Analog Out (4-20mA)
HE959HSC840	8 High Speed In + 4 High Speed Out
HE959ADC270	8 Analog In (0-10V, 4-20mA)
HE959DAC207*	8 Analog Out (0-10V, 4-20mA)
HE959NTC800	8-10k Ω Thermistor Inputs

*Not available yet

Either Way, Configuration Is a Breeze

Whether it's a little or a lot, OCS-I/O configuration is meant to be simple and effortless. It's configured using Cscape software, so when wired up, it can find the base and autopopulate all installed modules automatically. From there you may only need to tweak a couple of configurations for the base or modules to be ready to go. Cscape also calculates the I/O power usage for you automatically, so you'll never overload an I/O base.

Fieldbus Network - CsCAN, has both a CsCAN In and CsCAN Out in order to easily daisy-chain your CsCAN network with module RJ45 connections.

Expandable up to 7 modules per base & 16 bases per network. Uses sturdy spring-clamp terminals to maintain a low-profile design

Compact Footprint - a loaded up base still fits in a footprint of 90mmh x 215mmw (3.5"h x 8.75"w)

OCS-I/O ACCESSORIES	
HE-RJTRM121	RJ45 CAN Terminator with 121 Ω resistor
HE-XRJ000	6" - RJ45 to RJ45 Ethernet patch cable. For connecting multiple Micro I/O, CNX or CPUs together
HE-XRJ003	3' - RJ45 to RJ45 Ethernet patch cable. Recommended for connection between Micro OCS and OCS-I/O CNX Base
HE-XRJ003R	3' - Red RJ45 to RJ45 Ethernet patch cable. Recommended for CAN connection between Micro OCS or CPU, OCS-I/O CNX Bases or Micro I/O
HE-XRJ009	9' - RJ45 to RJ45 Ethernet patch cable. Recommended for connection between Micro OCS and OCS-I/O CNX Base
HE-XRJ503	3' - RJ45 to 5 Pin Cable. Recommended for connection between XL / XL Prime Series to OCS-I/O CNX Base
HE-XRJ509	9' - RJ45 to 5 Pin Cable. Recommended for connection between XL / XL Prime Series to OCS-I/O CNX Base

Universal Analog Inputs can be configured for 0-20mA, 4-20mA, 0-10V, PT100/1000, and Thermocouple Type J/K/T/E/N/R/S signals.

*Licensed option

**For UL and CE Standards, visit the specific product pages for these items on website.

in Small Packages...

Modular Controller Base Options!

The Horner Automation Controller Lineup is Expanding!

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!

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

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.

HE959CPU250	
	2MB Logic capacity, 50,000 %R Holding Registers
	8 DC Inputs (4 High Speed), 10 DC Outputs (2 High Speed)
	8 Flexible Inputs (Digital or Analog) configured as DC In or 0-10V/4-20mA inputs
	8 Analog Outputs (4 x 4-20mA, 4 x 0-10V)
	Compatible with OCS-I/O modules for local and remote I/O expansion
	Ethernet, RS-232/485 and CAN ports, and WebMI-capable
	USB-C for programming, Micro SD slot for datalogging

HE959CPU260	
	Re-thinking the all-in-one controller with simplified optional HMI Connect displays
	Able to easily retrofit traditional HMI / PLC installations and still take advantage of programming in the all-in-one Cscape software package
	2MB Logic capacity, 50,000 %R Holding Registers
	8 DC Inputs (4 High Speed), 10 DC Outputs (2 High Speed)
	8 Flexible Inputs (Digital or Analog) configured as DC In or 0-10V/4-20mA inputs
	8 Analog Outputs (4 x 4-20mA, 4 x 0-10V)
	Compatible with OCS-I/O modules for local and remote I/O expansion
	Ethernet, RS-232/485 and CAN ports, and WebMI-capable
	USB-C for programming, Micro SD slot for datalogging

HE959CPU300	
	Re-thinking the all-in-one controller with simplified remote HMI Connect displays
	Able to easily retrofit traditional HMI / PLC installations and still take advantage of programming in the all-in-one Cscape software package
	2MB Logic capacity, Multi-Core CPU with dedicated logic and graphics cores
	Local 2" display for System Menu with optional HMI Connect display capability
	Compatible with OCS-I/O modules for local and remote I/O expansion
	Dual Ethernet, RS-232/485 serial, 1 CAN port
	Dedicated expansion port for 2nd rack of synchronous I/O
	USB-C for programming, Micro SD slot for datalogging



CPU250



CPU260 (coming soon)



CPU300



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