Good Things Come in Small Packages...

HORNER AUTOMATION GROUP

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.

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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.

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.

Expand to 7 modules per base & 16 modules 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 90H x 215W (mm) or 3.5H x 8.75W (in.)

OCS-I/O	AC Inputs	DC Inputs	Relay Outputs	DC Outputs	Universal Analog Inputs	Analog Outputs
HE959ADU100	0	0	0	0	4	0
HE959DAC107	0	0	0	0	0	4
HE959DIM620	8	0	0	0	0	0
HE959DIQ512	0	4	4	0	0	0
HE959DIQ616	0	8	0	8	0	0
HE959DQM502	0	0	4	0	0	0

HE959CNX116 Base			
Flexible Inputs Digital or Analog	DC Outputs	Universal Analog Inputs	Analog Outputs
2*	2	1	1

*I1 and I2 can be configured as either digital or analog inputs

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.

OCS-I/O ACCESSORIES	
HE-RJTRM121	RJ45 CAN Terminator with 121 ohm resistor
HE-XRJ003	3' - RJ45 to RJ45 Ethernet patch cable. Recommended for connection between Micro OCS and OCS-I/O CNX Base
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

OCS-I/O

Highly Expandable & Flexible Remote I/O for OCS

EXPANDABLE & FLEXIBLE REMOTE I/O

I/O Base with Flexible I/O

Universal Analog Input Module

AC Input Module

DC Input/Output Module

HE959CNX116

Max Number of Modules	7 per base
Flexible Inputs	2 (Digital or Analog)
Input Voltage Range	5V, 12V or 24V
Analog Input Types	0-20mA/4-20mA/0-10V
DC Outputs	2 (2A)
Output Voltage Range	10 to 30 VDC
Operating Air Temp	-40ºC to 60ºC

Universal Analog In	1
Input Resolution	16-bit
Supported Input Types	RTD/TC/0-20mA/0-10V
Max Error at 25ºC	0.2%
Analog Outputs	1
Output Resolution	12-bit
Output Ranges	0-20mA/4-20mA/0-10V

HE959ADU100

Analog Inputs	4
Resolution	16-bit
Supported Input Types	RTD/TC/0-20mA/0-10V
Thermocouple Types	J/K/T/E/N/R/S
RTD Types	PT100, PT1000
Max Error at 25ºC	0.2%
Operating Air Temp	-40ºC to 60ºC

HE959DIM620

AC Inputs	8
Commons per Module	1
Input Voltage Range	90 to 240VAC
Absolute Max Voltage	260 VAC
OFF to ON Response	<20ms
ON to OFF Response	<20ms
Operating Air Temp	-40ºC to 60ºC

HE959DIQ616

DC Inputs	8
Input Voltage Range	12 to 24 VDC
Input Commons	1
DC Outputs	8 (0.5A)
Absolute Max Voltage	32DC
Output Commons	1
Operating Air Temp	-40ºC to 60ºC

Analog Output Module

DC/Relay Input/Output Module

Relay Output Module

HE959DAC107

Analog Outputs	4
Resolution	12-bit
Output Ranges	0-20mA/4-20mA/ +/-10V
Minimum 10V Load	500Ω
Maximum Current Load	500Ω
Max Error at 25ºC	0.2%
Operating Air Temp	-40ºC to 60ºC

HE959DIQ512

Digital Inputs	4
Input Voltage Range	12 to 24 VDC
Commons per Module	4
Relay Outputs	4
Max Output Voltage	120VAC
Max Output Current	3A each
Operating Air Temp	-40ºC to 60ºC

HE959DQM502

Relay Outputs	4
Max Current per Relay	8A AC / 5A DC
Max Total Current	16A
Max Output Voltage	240VAC
Expected Life	100K @ Rated Load
Operating Air Temp	-40ºC to 50ºC