Good Things Come in Small Packages...





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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.

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.

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 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	







Highly Expandable & Flexible Remote I/O for OCS

^{*}Licensed option

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

EXPANDABLE & FLEXIBLE REMOTE I/O





I/O Base with Flexible I/O

Universal Analog Input Module



AC Input Module

DC/Relay Input/Output

Module

AC Inputs



8

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	-40°C to 60°C

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



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 25°C	0.2%

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 25°C	0.2%
Operating Air Temp	-40°C to 60°C

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Commons per Module Input Voltage Range 90 to 240VAC 260 VAC Absolute Max Voltage <20ms OFF to ON Response <20ms ON to OFF Response Operating Air Temp -40°C to 60°C

HE959DIM620



DC Inputs 8 12 to 24 VDC Input Voltage Range

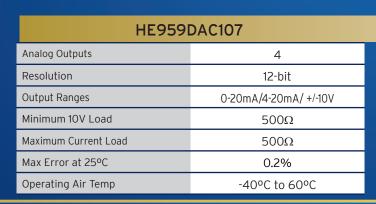
Input Commons DC Outputs 8 (0.5A) 32DC Absolute Max Voltage **Output Commons** Operating Air Temp -40°C to 60°C

HE959DIQ616

Relay Output Module



Analog Output Module



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	-40°C to 60°C		

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	-40°C to 50°C	

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