

SmartRail I/O

Highly Expandable Remote & Expansion I/O for OCS

SmartRail I/O Expands the I/O Capacity of OCS All-in-one Controllers. SmartRail uses Fieldbus technology, and can be installed locally or thousands of meters away



Flexible Fieldbus Selection

- CsCAN
- Ethernet
- CANopen
- Profibus

Local Expansion I/O or Remote I/O up to 500m away

Expand to 8 Modules per Base, & 16 Bases per Network

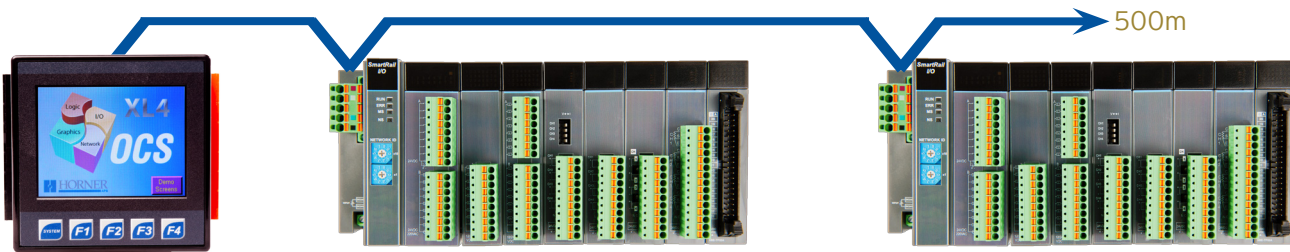
Screw-type Terminals Standard
Spring-clamp Style Optional

SmartRail is Modular, Flexible & Compact

SmartRail I/O is a modular I/O system for OCS offering a choice of fieldbus networks (CsCAN, Ethernet, CANopen and Profibus). SmartRail is a flexible I/O system that can be applied as local expansion I/O or remote I/O distributed over hundreds of meters. SmartRail is also a compact I/O system - supporting 128 I/O points in a footprint of only 90H x 215W (mm) or 3.5H x 8.75W (in.)

SmartRail is Easy to Configure

SmartRail gives you the benefit of Fieldbus I/O with much less complex configuration. SmartRail I/O is easily configured using Cscape programming software. Just select your I/O base - and then start adding I/O modules. Cscape even calculates I/O power usage for you automatically - so you'll never overload an I/O base.



CAN-based SmartRail supports up to 16 bases with a maximum network distance of 500m. Shown above with optional spring-clamp terminal strips.

SmartRail Specifications

Item	SmartRail I/O Specification			
	Ethernet	CsCAN	CANopen	Profibus
Bus Interfaces	Ethernet	CsCAN	CANopen	Profibus
Bus Connectors	Dual RJ45	5-pin Terminal		9-pin Dsub
Max Modules per Base	8			
Max Digital I/O per Base	256 total	256 total	256 total	128 in + 128 out
Max Analog I/O per Base	32	32	32	16 in + 16 out
Max Bases per Network	16			
Input Power	0.55A @ 24Vdc			
Temperature	0 to +55C Operating (-25 to +70C Storage)			
Relative Humidity	5% to 95%, non-condensing			



Class I, Division 2
Groups A, B, C, D

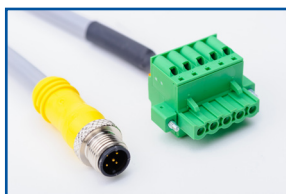
SmartRail Model Numbers

Part Number	Description
<u>I/O Bases</u>	
HE599ETX200	Ethernet Base with Built-in Switch
HE599CNX100	CsCAN I/O Base
HE599CPX100	CANopen I/O Base
HE599PBX100	Profibus I/O Base
<u>Analog Modules</u>	
HE599ADC170	4ch 4-20mA, 0-10V Analog Inputs
HE599RTD100	4ch RTD Inputs
HE599THM100	4ch Thermocouple Inputs
HE599MIX116	2ch/2ch 4-20mA, 0-10V Analog In/Out
HE599DAC101	4ch 0-10V Analog Outputs
HE599DAC106	4ch 4-20mA Analog Outputs
<u>Ethernet Accessories</u>	
HE599CBEnn	Shielded Ethernet Cables (nnn=length)

Part Number	Description
<u>Digital Modules</u>	
HE599DIM510	8pt DC Input (pos/neg logic)
HE599DIM610	16pt DC Input (pos/neg logic)
HE599DIM710*	32pt DC Input (pos/neg logic)
HE599DIQ512	8pt/8pt DC Input/Relay Output
HE599DQM502	8pt Relay Output, 2A
HE599DQM602	16pt Relay Output, 2A
HE599DQM506	8pt DC Output (pos logic), 0.5A
HE599DQM606	16pt DC Output (pos logic), 0.5A
HE599DQM706*	32pt DC Output (pos logic), 0.2A
<u>I/O Wiring Accessories</u>	
HE599TRM040	DIN-rail Terminal-strip for 32pt I/O
HE599CBLn40	Terminal Strip Cable for 32pt I/O (0.5m, 2m)
HE599RLY037	DIN-rail Relay Base for 32pt DC Out
HE599CBLn37	Relay Base Cable for 32pt Out (0.5m, 2m)

*Requires wiring accessories for termination

Wiring Accessories



HE200CCT512
CAN Cordset Adapter & Power Tap



HE200CNT100
CAN Network Tee



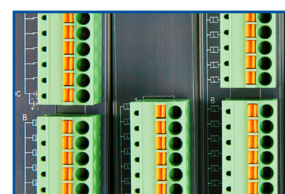
HE200CNCnn
CAN Network Cordsets (nnn=length)



HE200CTn100
CAN Terminator (n =Male or Female)



HE200ACC500
CAN Double Plug



HE599TRMnn
Spring-Clamp I/O Terminals
(nnn=# of positions)



59 S. State Ave. Indianapolis, Indiana 46201 | US website: www.heapg.com | (+1) 877-665-5666
EU website: www.horner-apg.com | (+353) 21-4321266