

Easily Deployed, Rugged Remote I/O Solutions



Ethernet Remote I/O—ioLogik E1200 Series

- 2-port Ethernet switch for daisy-chain topologies
- Save time and wiring costs with peer-to-peer communication
- User-defined Modbus/TCP addressing
- Wide operating temperature: -40 to 75°C (-40 to 167°F)



Rugged Ethernet Remote I/O— ioLogik E1500 Series

- Compliant with EN 50121-3-2, EN 50121-4 and essential sections of EN 50155
- Channel-to-channel isolation
- Wide operating temperature: -40 to 85°C (-40 to 185°F)



Modular Remote I/O— ioLogik E4200

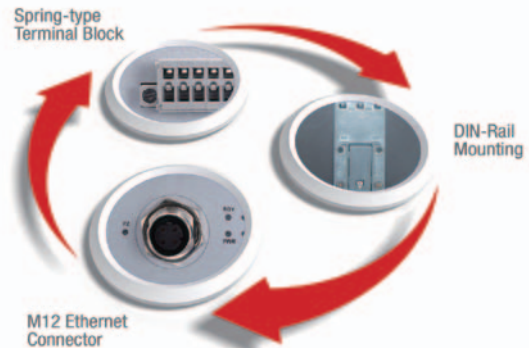
- Dual Ethernet LANs for network redundancy
- Allows as many as 16 expansion modules without needing a backplane
- Front-end intelligence with patented Click&Go



: Rugged Ethernet Remote I/O: The ioLogik E1500 Series for Railway Markets

Ruggedly Designed for Monitoring Rolling Stock

The ioLogik E1500 Ethernet remote I/O devices have a durable aluminum housing and are compliant with EN 50121-3-2, EN 50121-4 and essential sections of EN 50155 standards. Both of which are essential for electronic equipment used in railway applications. The ioLogik E1500 design strictly conforms to EN standards, including not only EMC requirements but also with regard to shock, vibration, extended temperature range, humidity, and power supply variations.



Channel-to-Channel Isolation

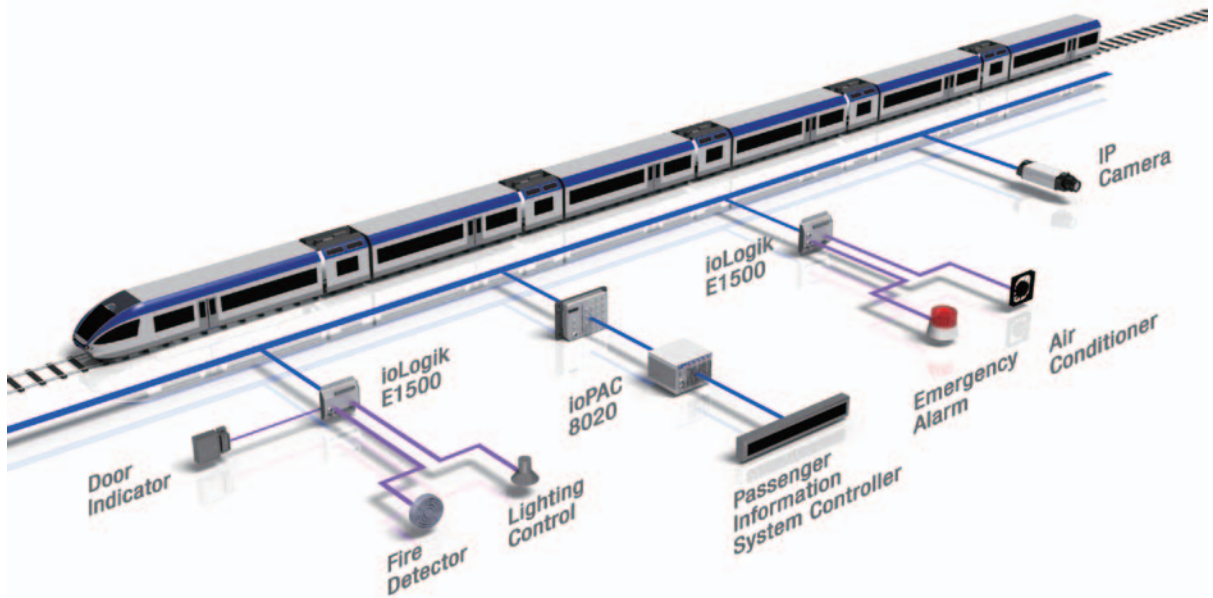
With this topology, I/O channels on the ioLogik E1500 are individually isolated from one another to ensure that data communication is highly

stable. For example, a lightning strike that affects one channel will not affect devices connected to other channels on the same ioLogik E1500.

Applications: Enhanced Efficiency for Remote Monitoring on Rolling Stock

Do you need an EN 50155/50121 compliant remote Ethernet I/O device for use on rolling stock? The ioLogik E1500 railway I/O module features an anti-vibration design, channel isolation and stays operative in temperatures from -40° to 85°C, making it the ideal solution for

data acquisition on rolling stock. Capable of both monitoring system status and triggering I/O events, the ioLogik E1500 is your best choice when you want to simultaneously enhance system reliability and maintenance efficiency in rolling stock environments.

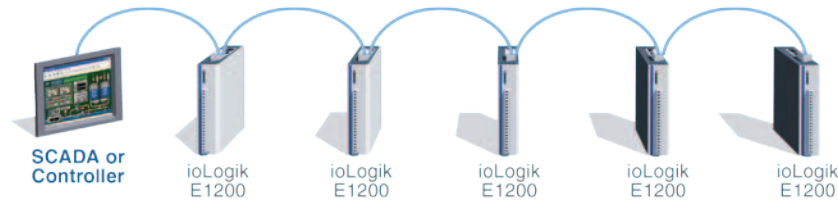


: Ethernet Remote I/O: the ioLogik E1200 Series

Daisy-Chain Topology Reduces Deployment Costs

Thanks to its two embedded Ethernet switches, the ioLogik E1200 remote Ethernet I/O allows you to create daisy-chain topologies for flexible device cabling. In a distributed Ethernet data acquisition application, panels, units, and cabinets are often located at remote

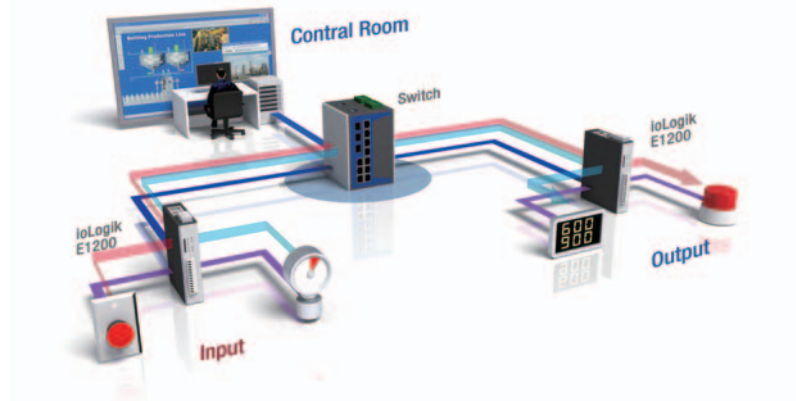
sites where space is limited. Daisy-chaining ioLogik E1200 units to each other or other nearby Ethernet devices not only saves space, but also drastically reduces cabling and deployment time.



Saving Time and Wiring Costs with Peer-to-Peer Communications

In remote automation applications, the control room and sensors are often far removed, making wiring over long distances a constant challenge. With peer-to-peer networking, users may now map a pair

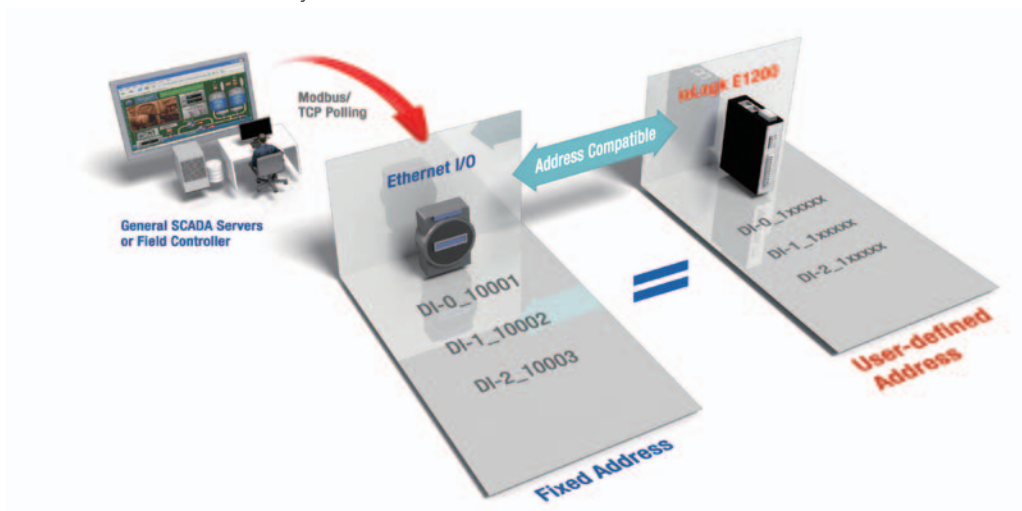
of ioLogik E1200 series modules so that input values will be directly transferred to output channels, greatly simplifying the wiring process and reducing wiring costs.



User-definable Modbus/TCP Addressing for Painless Upgrading of Existing Systems

For Modbus devices that are controlled and detected by fixed addresses, users need to spend a vast amount of time researching and verifying the configurations. Users need to locate each device's networking details like I/O channels, or vendor-defined addresses to enable the initial or start address of a SCADA system or PLC.

The ioLogik E1200, with user-definable Modbus/TCP addressing, offers greater flexibility, and setup is easy. Instead of worrying about individual devices, users simply configure the function and address map to fit their needs.

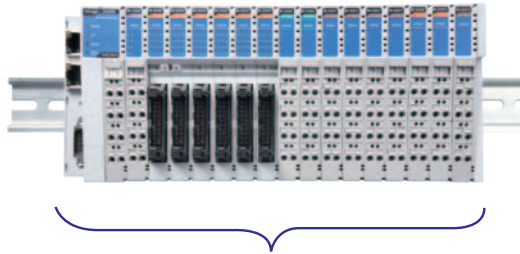


: Modular Remote I/O: the ioLogik E4200

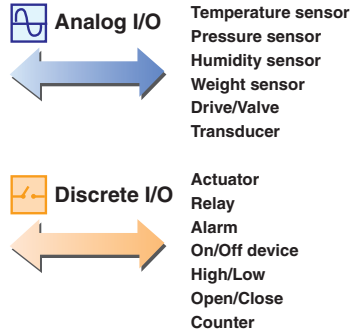
Slice Form Factor and Flexible I/O Combination

The unique modular construction of the ioLogik E4200 allows the mixing and matching of modules to achieve the best combination of I/O modules to meet the needs of a wide range of remote automation applications. The ioLogik E4200 features an industrial modular housing that allows up to 16 I/O modules to be added to the base unit without a backplane. The width of each module is merely 12 mm, and at a

full load of 16 modules, the total size is less than 25 cm—perfect for space-limited applications. The ioLogik E4200 provides up to 256 DI/DO points or 64 AI/AO points for greater flexibility and expandability. The modules can connect to virtually any type of sensor, including but not limited to those for temperature, pressure, flow, voltage, current, and contact closure.



Can add up to 16 modules, total size less than 25cm



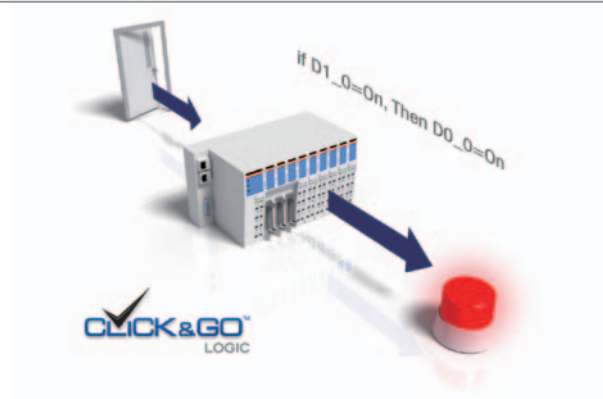
Reliable Dual-LAN Redundancy

The ioLogik E4200 modular remote I/O comes with dual network interfaces, which have separate MAC and IP addresses for connecting to different network segments. Redundancy to improve system

reliability can be easily implemented by allowing hosts located on different networks to control or monitor the systems.

Click&Go™ Code-free Local Intelligent Control

The patented Click&Go event-based control logic offers local control without the need to communicate with the remote host. Click&Go's intuitive, graphical interface and simple IF-THEN-ELSE control logic, which defines how the ioLogik E4200 will respond to different events, is easy and straightforward to set up. Click&Go supports active communication methods, including TCP, UDP, SNMP Trap, email, and CGI commands, making it extremely easy to integrate Click&Go with any monitoring system.



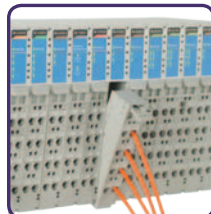
Easy Maintenance

The ioLogik E4200 and ioLogik 4000 series come with removable spring-type terminal blocks (RTBs) that allow you to conserve field

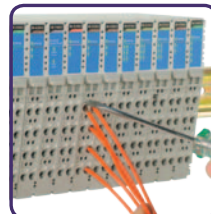
wiring for future use. Each I/O expansion module can be quickly and easily replaced.



Slice Type I/O Modules



Removable Terminal Block



Spring Type Terminal Block



Module Coding Tag