

DIRECTOR Z4

EDGE-OF-NETWORK GATEWAY

VERSATILE, RUGGED, AND RELIABLE.

The Director Z4 is a ruggedized field-proven edge-of-network front-end processor designed for industrial field applications. This single device enables a seamless migration path for quicker data acquisition, automatic communication failover, cybersecurity, bandwidth management, and protocol conversion throughout your entire industrial communication network.



DIRECTOR Z4

APPLICATIONS

- Standard I/O configuration: 3 RS232, 1 RS485, 4 Ethernet, 2 USB expansion ports
- 64MB flash memory, 256MB dynamic RAM, optional removable SD card memory
- Built-in support for most protocols
- Internal data channel, functions as a terminal server providing multi-protocol routing
- Automatic communications failover
- Virtual serial ports (using internal data channel) provide socket connections to tie processes together
- Remote programmability and configuration over secure connection
- Many options for data security (TLS, SSH/SSL, SFTP, SCP, VPN, IPsec, Firewall, etc.)
- Report-by-Exception, Publish/Subscribe and Poll/Response data architectures

FEATURES



Reduce Data Latency

- Optimize Data Handling
- Report by Exception
- Publish and Subscribe
- Data Concentrator



Standardize Field Integration

- Protocol Conversion
- Flexible Migration Path
- Scalability



Enhance Communication Reliability

- Cybersecurity
- Automatic Communications Failover
- Automatic Host Redundancy



Enterprise Integration






- Message Oriented Middleware (MOM)
- Supervisory Control and Data Acquisition (SCADA)
- Enterprise Resource Planning (ERP)
- Electronic Flow Measurement (EFM)
- Data Analytics
- Many more...

AFFORDABLE DATA MANAGEMENT SOLUTION

With a wide selection of industry standard and legacy protocols, the Director Z4 can gather data from almost any field device and deliver it to your enterprise data systems. Combining our Advanced Configuration Environment (ACE) with one of the industry's best application programming languages (ISaGRAF), the Director can be easily programmed for most applications.

The Director Z4 has an optional integrated cellular modem and also supports I/O expansion options enabling the unit to be easily customized for your specific application. Utilizing its native MQTT client, the Director Z4 directly interfaces with messaging middleware/ data brokers, new and legacy SCADA hosts, ERP systems, Leak Detection, Maintenance Systems and other enterprise applications. Elecsys also provides the "Director HCP2" (Host Communication Processor) or OPC software packages to enhance the performance and capabilities of your existing system.

MAJOR MARKETS

-  OIL
-  GAS
-  WATER
-  ELECTRICAL
-  AGRICULTURE

PRODUCT SPECIFICATIONS

MODEL	DZ4-00-00
Part Number	DZ4-00-00 - Director w/DIN rail mount kit
Operating Environment	Temperature: -40° C to +75° C Humidity: 0-95% non-condensing Hazardous: Class 1 Div 2
Power	Power Input: 9.5VDC - 28VDC (optional 120VAC power supply available) Power Consumption: 3.5W (w/o Expansion Options)
Size	H: 2.61" (66.3mm), W: 6.92" (175.8mm), L: 6.78" (172.2mm)
Inputs	Com Ports: 3 RS232, 1 RS485 Ethernet: 4 RJ-45 (10/100) Expansion Ports: 2 USB, 2 PC104, SD Card Slot
Expansion Options	CAT-M1 Cellular Modem Serial Com Expansion (adds 1 RS485 and 3 RS232 ports) Digital/Analog I/O (adds 16 12-bit ADC inputs, 2 12-bit DAC outputs, 8 Dig. Inputs) Relay/Digital Input Expansion (adds 8 relays and 8 digital inputs)
Middleware Options	MQTT/Sparkplug-B Elecsys OPC Server Elecsys HCP2 (Modbus)



“
A FULL TOOLKIT OF
POWERFUL DATA AND
NETWORK MANAGEMENT
FEATURES.”

Manufactured in the USA

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Modbus



To learn more, please visit us at elecsyscorp.com or call 913-647-0158

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