

# elecsys DIRECTOR Z2

## Edge-of-Network Gateway

The Director Z2 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, cyber security, bandwidth management, and protocol conversion throughout your entire industrial communication network.



Manufactured  
in the USA

### 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

- Cyber Security
- Automatic Communications Failover
- Automatic Host Failover



#### Enterprise Integration

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

### APPLICATIONS

- Standard I/O configuration: 3 RS232, 1 RS485, 2 Ethernet, 2 USB expansion ports
- 32MB flash memory, 128MB dynamic RAM, optional removable SD card memory
- Built-in support for most protocols
- Internal local database with battery back-up
- Internal data channel, functions as a terminal server providing multi-protocol routing
- Automatic fail-over and local storage of data during communication failure and forwarding of archived data when communication resumes
- Virtual serial ports (using internal data channel) provide socket connections to tie processes together
- Support for multiple communication fail-over paths
- Remote programmability and configuration over securable connection
- Support for data security and encryption (TLS, SSH/SSL tunneling, SFTP, SCP, Open VPN, Open Connect, Firewall, etc.) ... for data security and encryption

## SPECIFICATIONS

MODEL	DZ2-00-00
Part Number	DZ2-00-00 - 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 Power Consumption: 3.5W Nominal (w/o Expansion I/O)
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	8 Serial Com Expansion (adds 8 RS232 ports) 4 Serial Com Expansion (adds 3-RS232 and 1-RS422/485 ports) Multi I/O Expansion (adds 4 AI's (16 bit), 4 AO's (12 bit), 1 DO (solid state), 4 DI (w/ high speed counter) HART Com Expansion (adds 4 HART Channels) Elecsys E-Modem CDMA, GSM and HSPA+
Software Options	Elecsys OPC Server Elecsys HCP2 (Modbus)

The Director has native support for most data protocols including: Modbus, DNP3 Level 2 (master and slave), BACnet, IEC 61850 (1-10), DF1, SRTP, HART, Bristol, Amacam, Square-D Symax, Cooper 2179, Valmet (Tejas) Series V and many more.

The Director is a powerful communication bandwidth management tool. It supports "report by exception" using the Elecsys OPC appliance, or using the Elecsys HCP2 host communication processor program. It incorporates support for MQTT brokers for publish/subscribe data distribution. Additionally, many data functions can be automatically performed locally by the Director using our "PODs" business logic programming or using the optional IEC 61131 ISaGRAF business logic software.

The Director provides support for virtually all commonly used wide area communication topologies including: VSAT, cellular, Ethernet, IP data radios, and serial data modems. The Director manages communication fail-over, and can provide data integrity verification with the host system using the optional HCP2 or OPC host communication processing software.

## MAJOR MARKETS



Oil



Gas



Electricity



Transportation



Agriculture

