



KEY FEATURES

- ▶ 10/100BaseT Ethernet Modbus TCP Interface
- ▶ 16 SPST Form A Reed relays
- ▶ 16 optically isolated inputs
- ▶ Removable screw terminals simplify field wiring
- ▶ Status indicator LEDs for Communication, Fault, and Power
- ▶ Input power via terminal block or modular connector
- ▶ DIN rail mount or table mount
- ▶ Software supports Windows 2000/XP/Vista operating systems

DESCRIPTION

Monitor and control 16 optically isolated inputs and 16 Reed relay outputs via any Ethernet connection with the ELK-EDIO410E. Inputs can range from 5-30VDC, while the Reed relays provide long life switch closures well suited to low current devices. Inputs and outputs are grouped into four-bit segments that each share a common for easy wiring via removable 3.5mm terminal blocks. The ELK-EDIO410E is powered from your 9-30VDC source, or select from a variety of power supply options. Communicate with the ELK-EDIO410E using industry standard Modbus TCP protocol or use the API software libraries from your application program. The software drivers and utilities make installation and operation easy using Windows 2000, XP and Vista operating systems. Expand your I/O network with I/O "N" series products. The I/O modules are available with Reed and Form C relays, optically isolated inputs, TTL interfaces, A/D and D/A functionality. Up to 246 additional expansion modules can be added using convenient pass-through connectors.

SPECIFICATIONS

Number of I/O	16 Inputs / 16 Outputs
Input Isolation	300V
Input Range	5-30 VDC
Contact Voltage	60VDC max.
Contact Current	500mA max.
Contact Operate Time	0.5ms max.
Contact Bounce Time	0.5ms max.
Contact Release Time	0.2ms max.
Power Requirement	9-30 VDC @ 2.9W
Dimensions	7.5" (L) x 5.1" (W) x 1.3" (H)
Operating Temperature	0 - +70°C
Storage Temperature	-50 - +105°C
Humidity range	10 - 90% R.H.

ORDERING INFORMATION

MODEL	DESCRIPTION
ELK-EDIO410E	Ethernet Modbus TCP to 16 Isolated Inputs / 16 Reed Relay Outputs
ELK-410N	16 Optically Isolated Input / 16 Reed Relay Output I/O Expansion Module
ELK-420N	16 Optically Isolated Input / 8 Form C Relay Output I/O Expansion Module
ELK-430N	32 Optically Isolated Input I/O Expansion Module
ELK-440N	32 Reed Relay Output I/O Expansion Module
ELK-450N	16 Form C Relay Output I/O Expansion Module
ELK-462N	96 Channel TTL Digital Interface I/O Expansion Module
ELK-463N	96 Channel TTL Digital Interface I/O Expansion Module
ELK-470N	16 A/D, 2 D/A, 8 24V Outputs, 8 Isolated Inputs I/O Expansion Module
ELK-520N	8 Optically Isolated Input / 8 High-Current Form C Relay Output I/O Expansion Module
ELK-CA246	CAT5 Patch Cable, 7' in Length - Blue
ELK-CA247	CAT5 Patch Cable, 10' in Length - Blue
ELK-CA251	CAT5 Crossover Cable, 7' in Length - Yellow
ELK-POE-SP-EX	Power Over Ethernet (PoE) Extractor with 5V/12V Switch
ELK-POE-SP-KT	Power Over Ethernet (PoE) Kit with 5V/12V Switch
ELK-PS105	90-265VAC to 12VDC/5VDC Power Supply
ELK-RK-CLAMP	19" Rack Tray Clamp
ELK-RK1U	1U 19" Rack Tray
ELK-RK2U	2U 19" Rack Tray
ELK-TR109	120VAC to 24VDC @ 500mA, Wall Mount Power Supply - (Multiple-Unit)
ELK-TR112	120VAC to 24VDC @ 250mA, Wall Mount Power Supply - (Single-Unit)

All Specifications within this document are subject to change without notice.



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