



KEY FEATURES

- ▶ **RS-232 Modbus RTU interface**
- ▶ **96 channels of buffered TTL I/O**
- ▶ **Each 8-bit port individually configurable as input or output**
- ▶ **Four 50-pin industry standard solid-state relay rack connectors**
- ▶ **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

The ELK-RDIO463S is an RS-232 Modbus RTU interface module providing 96 channels of buffered drive digital I/O. The interface module addresses the 96 channels of I/O as 12 eight-bit ports, each programmable as input or output. Using standard 50-pin IDC ribbon cables, connect up to four industry standard relay racks for PC based control and automation of equipment including sensors, switches, security control systems, and other industrial automation systems. A metal strain relief bracket is included to secure the cables after installation. The ELK-RDIO463S is powered from your 9-30VDC source, or select from a variety of power supply options. Communicate with the ELK-RDIO463S using the API software libraries or use any Modbus RTU compliant device. 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. 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 Channels	96 TTL
Output Specification	Sink up to 64mA, Source up to 32mA
Output Power	+5V @ 1A (5W) max.
Power Requirement	9-30 VDC @ 0.7W
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-RDIO463S	RS-232 Modbus RTU interface to 96 Channel TTL Digital Interface
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-CA135	DB78 Male to (2) IDC 50-Pin Ribbon Connectors - I/O 462 Modules
ELK-CA239	RS-485 Interconnect Cable, 5" in Length - for I/O, Relio R1100 Systems
ELK-CA167	50-Pin IDC to 50-Pin IDC Ribbon Cable, 40" in Length
ELK-CA197	50-Pin IDC to 50-Pin IDC Ribbon Cable, 18" in Length
ELK-DB109	DB9 Female to RJ45 Modular Adapter (RS-232 Pinout) for I/O Modules
ELK-DR104	DIN Rail Mounting Clips - for I/O, R1100, 4103
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-TA01	Terminal Block - 50-Pin Header - Relay Rack Simulation Module
ELK-TB07KT	Terminal Block Kit - 50 Pin Header (IDC Ribbon Cable) to Screw Terminals for Industry Standard TTL Solid State Relay Rack Cables
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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