

USB to 8 A/D / 2 D/A / 8 Isolated Inputs / 8 Outputs PLC 24V Digital Interface Adapter

MODEL ELK-UDIO8227



KEY FEATURES

- ▶ 8 differential or 16 single-ended 12-bit inputs
- ▶ 2 12-bit D/A output channels
- ▶ 8 optically isolated inputs
- ▶ 8 open collector outputs
- ▶ Removable screw terminals simplify field wiring
- ▶ High-retention USB Type B connector prevents accidental disconnection of USB cable
- ▶ Powered by USB connection
- ▶ Housed in rugged, attractive plastic enclosure
- ▶ 72" USB A to B cable 포함.
- ▶ Software supports Windows 2000/XP/Vista operating systems

DESCRIPTION

Control and monitor analog and digital interfaces via an available USB connection. Designed using the Maxim MAX197 successive approximation-type A/D chip, the ELK-UDIO8227 provides eight differential or 16 single-ended 12-bit inputs and two 12-bit D/A output channels. The A/D inputs are software selectable for 0-5V, 0-10V, +/-5V, and +/-10V ranges and each channel can be configured via hardware for measuring 4–20mA current loop. The inputs feature 5MHz bandwidth track/hold and 100 kps throughput rate. The two 12-bit D/A channels are jumper selectable for 0-5V and 0-10V output ranges. Additionally, the ELK-UDIO8227 module provides eight optically isolated inputs rated for 5-30VDC and feature 300V external isolation, while eight open collector outputs can sink up to 580mA - ideal for switching 24V devices commonly found in industrial environments. Perfect for a variety of data acquisition/control and test & measurement applications, the ELK-UDIO8227 includes removable screw terminals, which simplify field-wiring connections. These modules are housed in a rugged, attractive plastic enclosure and include a highly-retentive USB Type B connector to prevent accidental disconnection. The ELK-UDIO8227 is USB bus powered, so no external power supply is needed. Standard operating temperature range of these modules is 0°C to 70°C and extended temperature range (-40°C to +85°C) is optional. The software suite supports this family and is designed to work with third party applications via the API. Installation and operation is easy using Windows 2000/XP/Vista operating system.

SPECIFICATIONS

A/D Inputs	8 Differential or 16 Single-Ended
A/D Resolution	12-bits
A/D Range	0-5V, 0-10V, +/-5V, +/-10V
A/D Chip	Maxim MAX197
D/A Outputs	2 Single-Ended
D/A Resolution	12-bits
D/A Range	0-5V, 0-10V
Digital I/O	8 Inputs, 8 Outputs
Input Range	5-30 VDC
Input Isolation	300V
Output Type	Open Collector
Output Voltage	Max. 30V
Output Power Dissipation	Max. 500mA (single), Max. 580mA (all)
USB Specification	1.1 Compliant, 2.0 Compatible
Power Requirement	+5V @ 500mA
Dimensions	9.2" (L) x 5.3" (W) x 1.7" (H)
Operating Temperature	0 - +70°C
Storage Temperature	-50 - +105°C
Humidity Range	10 - 90% R.H.

ORDERING INFORMATION

MODEL	DESCRIPTION
ELK-UDIO8227	USB to 8 A/D / 2 D/A / 8 Isolated Inputs / 8 Outputs PLC 24V Digital Interface Adapter
ELK-CA214	USB Type A to USB Type A, 3 meters - Extension Cable
ELK-HUB4	High Speed USB 2.0 4-Port Hub
ELK-HUB7	High Speed USB 2.0 7-Port Hub
ELK-HUB7I	Optically Isolated 7-Port USB Hub
ELK-RK-CLAMP	19" Rack Tray Clamp
ELK-RK1U	1U 19" Rack Tray
ELK-RK2U	2U 19" Rack Tray

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



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