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

Part: 8227 | **Model:** SeaDAC MIO-26

Control and monitor analog and digital interfaces via an available USB connection. Designed using the Maxim MAX197 successive approximation-type A/D chip, the 8227 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 ksps throughput rate. The two 12-bit D/A channels are jumper selectable for 0-5V and 0-10V output ranges.

Additionally, the 8227 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 8227 includes removable screw terminals, which simplify field-wiring connections.

SeaDAC modules are housed in a rugged, attractive plastic enclosure and include a highly-retentive USB Type B connector to prevent accidental disconnection. The 8227 is USB bus powered, so no external power supply is needed. Standard operating temperature range of SeaDAC modules is 0°C to 70°C and extended temperature range (-40°C to 85°C) is optional.

The SeaMAX software suite supports the SeaDAC family and is designed to work with third-party applications via the SeaMAX API software libraries, or use any Modbus RTU compliant device. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems.

Get a jump start on your digital I/O development with The Digital I/O Handbook that will provide helpful information that you will use again and again. Check out Chapter 1 for an overview of logic principles.

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

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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
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems
- Housed in rugged, attractive plastic enclosure
- 72-inch USB A to B cable included

Specifications

A/D Chip	Maxim MAX197
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
A/D Range	0-5V, 0-10V, +/-5V, +/-10V
A/D Resolution	12-bits
Analog I/O	A/D Inputs, D/A Outputs
Family	SeaDAC
D/A Outputs	2 Single-Ended
D/A Range	0-5V, 0-10V
D/A Resolution	12-bits
Digital I/O	Isolated Inputs
Dimensions	9.2 (L) x 5.3 (W) x 1.7 (H)
Extended Temperature	Call for Options
A/D Inputs	8 Differential or 16 Single-Ended
Input Range	5-30 VDC
Input Isolation	300V
Host Interface(s)	USB
Modbus	Modbus RTU
Number of Inputs/ Outputs	8 Inputs, 8 Outputs
Operating Temperature	0°C to 70°C (32°F to 158°F)
Output Dissipation	Max. 500mA (single), Max. 580mA (all)
Output Type	Open-Collector
Output Voltage	Max. 30V
# of Ports	8/2/8/8
Power Requirement	+5V @ 500mA
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
USB Specification	1.1 Compliant, 2.0 Compatible