



Model: ADAM-6024

Compact I/O Combination Solution

12-channel Universal Input Output Module

Overview

The ADAM-6024 is a compact module that can combine several I/O interfaces, and thereby replace expensive installations that require several I/O modules. Ethernet connectivity is an added bonus.

In most equipment monitoring and control applications, both analog inputs/outputs and digital inputs/outputs need to be used, even though they only serve one unit. No matter how simple the installation, you have to purchase several different I/O modules to provide a combination of I/O interfaces. After researching common I/O combinations in the field, ADAM-6024 is the result.

Fewer modules, same features

The ADAM-6024 is a mixed I/O in ONE module with an optimized I/O portfolio of: two analog outputs, six analog inputs, two digital inputs and two digital outputs. According to research, this is suitable for 80% of single unit applications. Replacing a combination of digital I/O modules and analog I/O modules with the compact ADAM-6024 not only saves space and installation time, but also reduces module cost.

Ethernet connectivity

The ADAM-6024 works as an Ethernet I/O data processing center. This product is not only a standard I/O, but also an intelligent system designed with local control functions and a Modbus/TCP standard for users to easily develop various applications over the Ethernet.

Embedded web server & pre-built web page for remote monitoring and diagnostics

The ADAM-6024 features an embedded web server and pre-built web page to display real-time I/O data values, alarm and module status through LAN or Internet. Using an Internet browser, users can easily monitor real-time I/O data values and alarm anywhere, anytime. Moreover, users can design their own web page to replace the pre-installed web page.

Features

- Analog inputs with 16-bit effective resolution
- 2 analog outputs
- 2 digital inputs
- 2 digital outputs



International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

European Headquarters: Westlink Commercial Park Oranmore Co. Galway Ireland
+353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-elec.com support@bb-europe.com

Specifications

Analog Input

Channels:	6 differential
Effective Resolution:	16-bit
Input Type:	V, mA
Input Range:	±10 VDC, 0-20 mA, 4-20 mA
Isolation Voltage:	2,000 VDC
Sampling Rate:	10 samples/sec.
Input Impedance:	20 Meg. Ohms
Bandwidth:	13.1 Hz @ 50 Hz; 15.72 Hz @ 60 Hz
Accuracy:	±0.1 % or better
Zero Drift:	±6 $\mu\text{V}/^{\circ}\text{C}$
Span Drift:	±25 ppm/ $^{\circ}\text{C}$
CMR @ 50/60 Hz:	92 dB min.

Analog Output

Channels:	2
Effective Resolution:	12-bit
Output Type:	V, mA
Output Range:	0 -10 VDC, 4-20 mA, 0-20 mA
Drive Voltage:	15 VDC (for current output)
Isolation Voltage:	2,000 VDC
Accuracy:	0.05% of FSR
Drift:	±50 ppm/ $^{\circ}\text{C}$

Digital Inputs

Channels:	2 Dry Contact
	Logic level 0: close to GND
	Logic level 1: open

Digital Outputs

Channels:	2 Open Collector to 30 V
	100 mA max. load
Power Consumption:	4 W (typical)

Ordering Information

ADAM-6024	12-channel Universal Input Output Module
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+353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-elec.com support@bb-europe.com