DIGI Z1201 I/O MODULE

Giving you a greater degree of scalability for remote I/O control and monitoring applications

Avoid the extra cost of an additional controller and effort of maintaining multiple applications. Start with a **Digi Z45 Industrial Controller** and add I/O by connecting **Digi Z1201** expansion modules for a solution tailored to your system.

With support for various I/O combinations — relays, digital, analog, pulse, inputs and outputs — the expandable Digi Z1201 I/O module provides monitoring and controlling for use cases requiring unique I/O combinations.

On-device logic is supported from anywhere by Digi's Z45 Industrial Controllers. Our controllers perform simple to medium complexity control logic, similar to that of a Programmable Logic Controller (PLC).

Unlike a PLC, our controllers are designed for remote, distributed I/O applications in a single end-to-end solution.

Data communication between Z45 Industrial Controllers and Z1201 modules is provided by a 2-wire RS-485 connection with addressing and individual pin function established by program control using our Automation Control Application.

Digi Z1201 is a 16-pin, multifunction I/O module consisting of 8 collector outputs, and 8 multifunction inputs, each of which can be configured under software control for analog, digital or pulse operation. The module can be daisy-chained for expansion beyond a single I/O module.

FEATURES AND BENEFITS

– Versatile industrial-rated I/O module

– 8 open controller output options

– 8 multi-mode inputs configurable to analog, digital or pulse

– RS-485 communications

– Compatible with industry standard sensors ranging from 0-5 VDC, 4-20 mA or 0-10 VDC

– Switch selectable pull-ups

– Switch selectable RS-485 termination

– Daisy-chain power and communications to support multiple I/O modules and other RS-485 devices
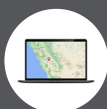
– Conformal coated and DIN rail mountable

DAISY-CHAIN POWER AND COMMUNICATION

RELATED PRODUCTS

Digi Z45 Industrial Controllers

SkyCloud

Digi Connect Sensor+

SPECIFICATIONS	DIGI Z1201 I/O MODULE
GENERAL FEATURES	RS-485, 2-wire interface
	8 open collector outputs, 30 VDC max
	8 multi-mode inputs, 30 VDC max
	Pulse counting
	Analog inputs
	Digital outputs
INPUTS	Maximum input voltage: 30 VDC
	Input logic, Low </= 1, High >/= 4
	Sample rate: 512 Hz
CONFIGURABLE I/O: DIGITAL OUTPUTS	Open collector output rating: 30 V 350 mA single output, 250 mA with all outputs on
	Max update frequency: 60 Hz
	Pulse width modulation: 7.8 KHz, 8-bit resolution
CONFIGURABLE I/O: ANALOG INPUTS	Measurable range: 0-5 VDC
	Read frequency: 20 Hz
	Analog input A/D conversion: 12-bit with 10 mV
CONFIGURABLE I/O: PULSE INPUTS	Max pulse width: 3 msec
	Max count stored between reads: 32,767
CONTROL INTERFACE	RS-485 2-wire
	Protocol: Proprietary Automation Control
POWER	Input: 9 - 24 VDC (external source)
	Consumption: 100 mA (excluding active inputs)
ENVIRONMENTAL	Operating temperature: -30 °C to 70 °C (-22 °F to 158 °F)
	Humidity: 90% non-condensing
MOUNTING	35 mm DIN
DIMENSIONS	10.719 cm x 6.02 cm x 3.33 cm (4.22 in x 2.37 in x 1.312 in), excluding terminal block and DIN clip
WEIGHT	0.29 kg (0.63 lb), without power adapter
WARRANTY	1-year standard warranty

PART NUMBERS	DIGI Z1201 I/O MODULE
CTK-Z1201	Digi Z1201 Multifunction I/O Controller

FOR MORE INFORMATION PLEASE VISIT DIGI.COM

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