

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Acromag / Xembedded / Xycom XVME-210* at our website: ***Click HERE***

2.3 DIGITAL INPUT CONNECTIONS

The module is capable of receiving 32 separate digital inputs. The inputs are accessible on the front edge of the board in the form of two 37 pin D-type connectors. The connectors are labeled JK1 and JK2 (see Figure 2-1). The following tables show the pin designations for connectors JK1 and JK2.

Table 2-1. Input Connector JK1

Input Name	Channel Number	JK1 Pin Connections	
		Channel Supply Voltage (+)	Input (-)
IN0	0	1	20
IN1	1	2	21
IN2	2	3	22
IN3	3	4	23
IN4	4	5	24
IN5	5	6	25
IN6	6	7	26
IN7	7	8	27
IN8	8	9	28
IN9	9	10	29
IN10	10	11	30
IN11	11	12	31
IN12	12	13	32
IN13	13	14	33
IN14	14	15	34
IN15	15	16	35
Isolated +12V Return			37 19

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Table 2-2. Input Connector JK2

Input Name	Channel Number	JK2 Pin Connections	
		Channel Supply Voltage (+)	Input (-)
IN16	16	1	20
IN17	17	2	21
IN18	18	3	22
IN19	19	4	23
IN20	20	5	24
IN21	21	6	25
IN22	22	7	26
IN23	23	8	27
IN24	24	9	28
IN25	25	10	29
IN26	26	11	30
IN27	27	12	31
IN28	28	13	32
IN29	29	14	33
IN30	30	15	34
IN31	31	16	35
Isolated +12V Return			37
			19

Each input is opto-isolated from the active circuitry of the board to allow an input voltage range of from 10V DC to 50V DC. The module is factory-wired with the on-board 12V DC power supply connected to the positive input of each opto-isolator. Monitoring of relay contacts or switches (rated 12V or better) would simply require connecting the contacts (or switches) between the negative lead of the opto-isolator and board ground (see Figure 2-3). When the switch or relay closes, the circuit will be complete, and the digital input will be coupled across the opto-isolator. The diode on the negative input line is provided to prevent damage to the opto-isolator from reverse voltage.

The voltage applied to an input (either from the on-board 12V DC supply or an external voltage source) will determine whether the data which is read from the channel is a logic zero or a logic one. A logic zero (low) is indicated whenever the input signal is 0.8V DC or less. A logic one (high) is indicated whenever the input signal is in the range 10V DC to 50V DC. An input voltage between 0.8V DC and 10V DC will produce an indeterminate data state and thus should not be used.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP