VersaNet2 Radio Data Network
Digital Output Module
Part No.IRDN301J

Judd Telemetry Solutions

Features

- Provides eight digital outputs per module, with up to sixteen modules per node.

- Used for control and alarm applications where relay outputs are required.

Digital Output Module Block Diagram
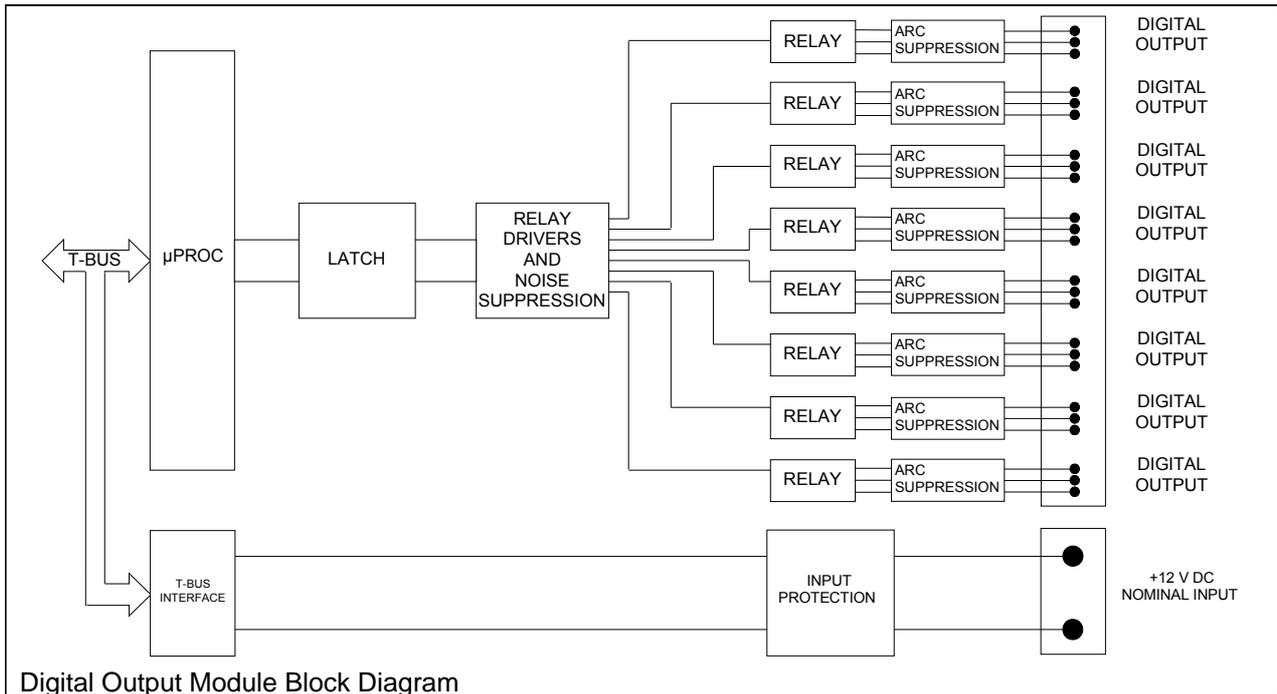
Brief Description

This module provides eight digital outputs to external devices in the form of changeover relays, fitted with arc suppression networks. Digital outputs change state based upon instructions received from the Communications Controller (IRDN200-xxx). These instructions may originate from a Digital Input at another node or via the Serial Data Highway for MODBUS applications. For exact configuration instructions please refer to the VersaNet2 User Manual (LIT0002).

DIP Switch Settings

SW1 Settings				Address
1	2	3	4	
on	on	on	on	1
off	on	on	on	2
on	off	on	on	3
off	off	on	on	4
on	on	off	on	5
off	on	off	on	6
on	off	off	on	7
off	off	off	on	8
on	on	on	off	9
off	on	on	off	10
on	off	on	off	11
off	off	on	off	12
on	on	off	off	13
off	on	off	off	14
on	off	off	off	15
off	off	off	off	16

Switch 1 (4-Way DIP Switch) should be set to a unique address for each module of this type within a node. Switch settings should be performed without power connected.

Technical Specification

Module Name	Digital Output
Part Number	IRDN301J
No. of modules per Node	16 max
Processor	80C31
Internal Interface	T2-BUS Slave Peripheral
Relay Outputs	8 changeover, with arc suppression

Loading

Minimum	1mA	@	1V DC
Maximum	8A	@	240V AC
	8A	@	120V AC
	8A	@	30V DC

Output settling time	20 ms per channel from receipt of T-Bus command
Contact life expectancy (mechanical)	1×10^7
Power Supply	11 – 14V DC through T2-BUS

Current Consumption

Minimum	30 mA
Typical	130 mA
Maximum	250mA

Operating Temperature	-10°C to +55°C
User connection	2 part screw terminals
Dimensions	144 x 167 x 32mm
Weight	0.3kg

Digital Output Module Connection Chart
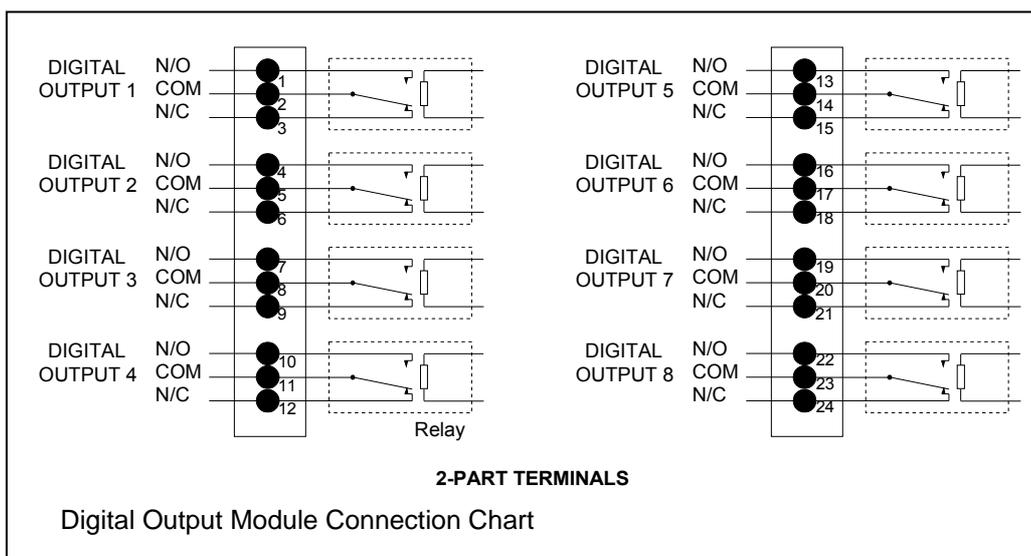
Rack Mounting

A rack mount version of the IRDN301 is available – Part code IRDN301R.
This card is fitted with a DIN 41612 connector to allow direct fitting into a 4U rack and connection to a back plane.