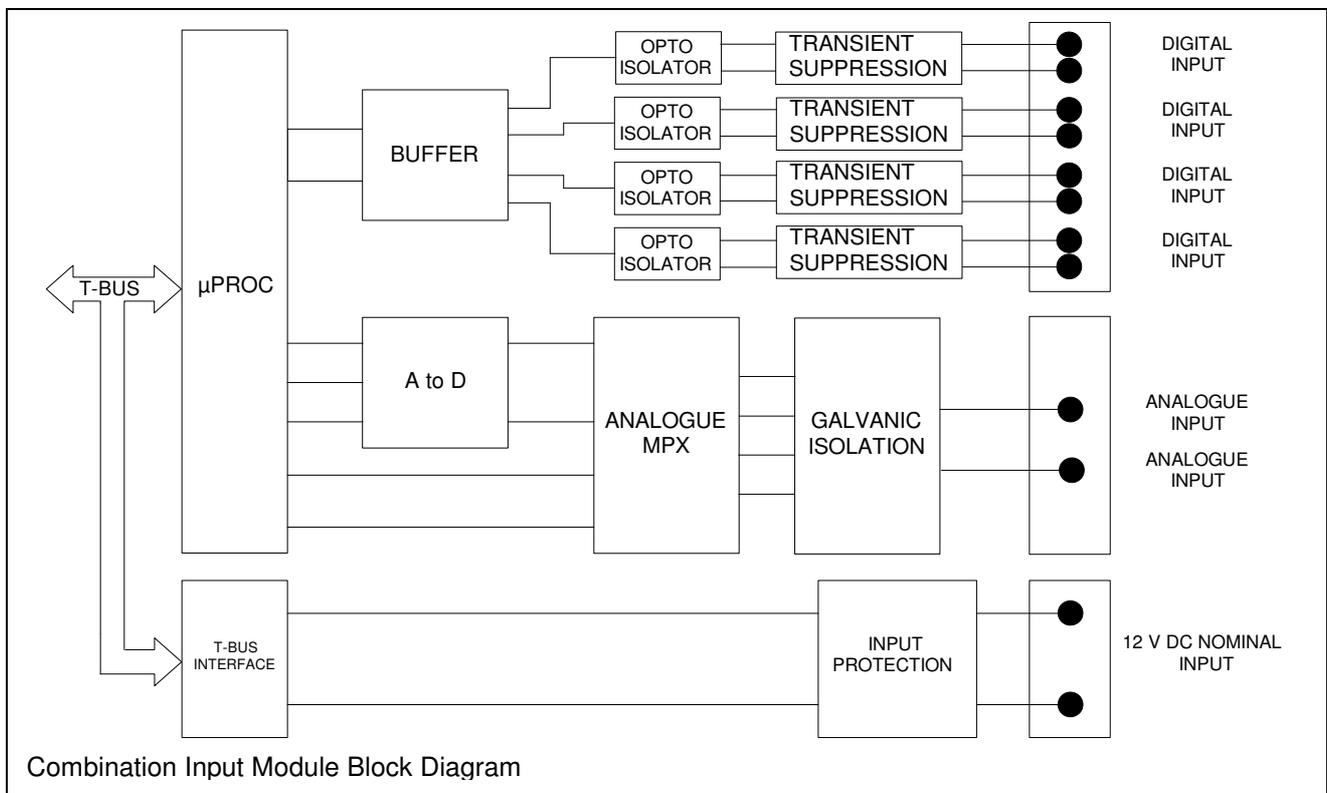


# VersaNet2 Radio Data Network Combination Input Module Part No.IRDN311

Publication IRDN311/1/Apr2013

## Features

- Collects up to four digital and two analogue inputs for the VersaNet node
- Data can be in the form of 0-5V DC or 0-20mA(selectable per channel)
- Suitable for use at locations without mains power supply
- Only one Combination Input Module can be used per VersaNet node



## Brief Description

The Combination Input Module is used to collect up to four digital inputs and two analogue readings into a node.

Each digital input channel consists of an opto-isolated DC supply for connection to the users volt free contacts or open collector transistor outputs. The DC supply on these terminals is isolated from the VersaNet power supplies, but is common to all input channels. Transient suppression is provided on every input to protect against spikes and surges. Each analogue input has galvanic isolation offering 1,000V isolation between input channels and earth. The data may be in the form of DC voltage in the range of 0-5V or a DC current of 0-20mA. This is selectable for each input channel.

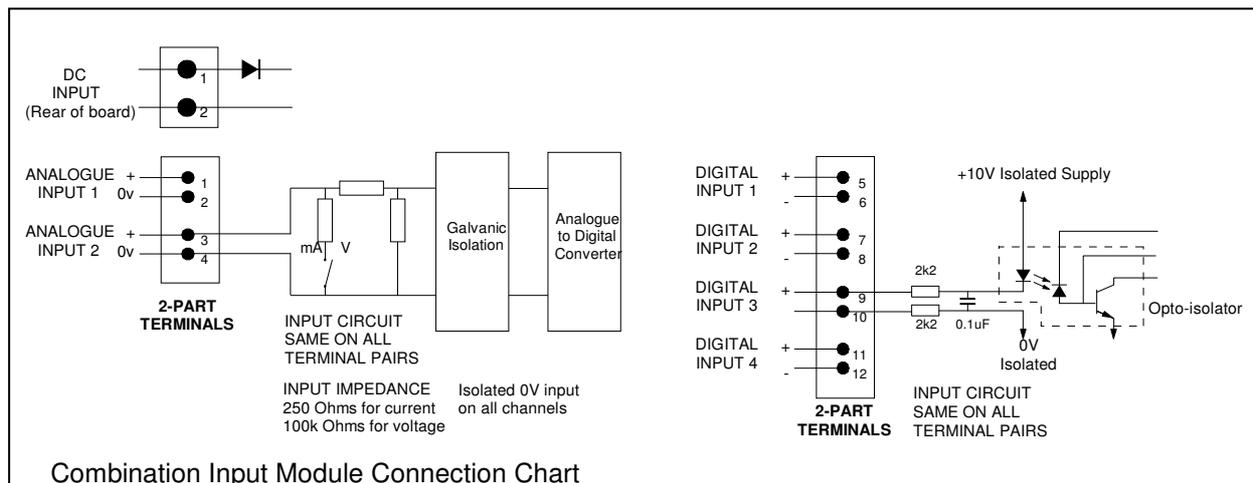
Analogue input values can be programmed to transmit on a time interval, % change, or combination of both using the configuration port on the Communications Controller of the node. Digital inputs can be programmed to transmit on time interval or change of state.

### Low Power Option

The IRDN311 can be used as a low power combination input card by selecting the option with link 6 on the PCB. In conjunction with a Communications Controller, a low power node can be configured for use in locations without mains power supplies. See the VersaNet2 Manual for full details of low power operation.

## Technical Specification

<p>Module Name Part Number No. of modules per Node Processor Internal Interface Digital Inputs Analogue Outputs</p> <p>Precision Scan Rate Power Supply</p> <p>Current Consumption</p> <p>Operating Temperature User Connection Dimensions Weight</p>	<p>Combination Input Module IRDN311 1 maximum 80C31 T2-BUS Slave Peripheral 4 volt free 4 Channels 0-5V DC 0-20mA DC switchable</p> <p>12 bit 1 second for all channels 11-14V DC direct or 11-14V DC from DC adaptor via T2-BUS</p> <p>Minimum 30mA Typical 50mA Maximum 100mA Low Power Mode 300µA</p> <p>-10°C to +55°C 2 part screw terminals 144 x 167 x 32mm 0.3kg</p>
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