G-MUX Quad I/O 1 to 8 Multiplexer

Product Brief

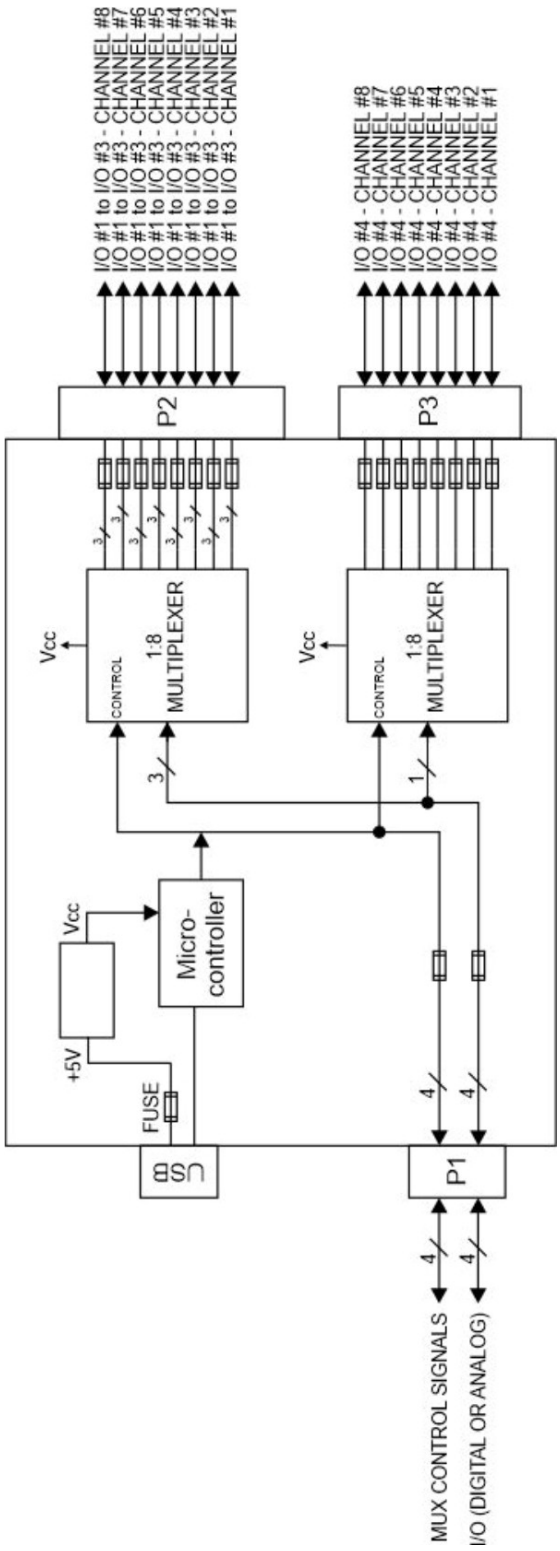
The Goneco Technologies G-MUX (Model Number GMX-2401) provides the ability to multiplex a group of four individual analog and/or digital signals to 1 of 8 output channels. This feature is particularly useful in such environments as production testing or production programming. The four individual signals can be used for both analog and digital signals, thus making the G-MUX useful for multiplexing analog signals as well as common serial protocol systems such as UART, SPI, and I2C.
In addition, popular programming protocols such as J-Link and JTAG are also supported.

Multiplexing of the signal group is controlled either through a USB interface, or discrete control signals. The G-MUX enumerates as a Virtual COM Port. A simple communication protocol is used to control operation of the G-MUX. Several G-MUX devices can also be connected in parallel to expand the group width.

Key performance specifications

- A group of four I/O signals can be routed to one of 8 output channels.
- I/O signals can be mixed (digital or analog signals).
- I/O signals are bi-directional.
- USB powered.
- Multiplexing function and channel selection can be controlled either via USB, or via externally controlled discrete control signals.
- Voltage range for I/O signals is 0V to +3.3V (analog or digital).
- Several G-MUX devices can be connected in parallel in order to increase the group width.
- Housed in a robust aluminum enclosure.

G-MUX - Simplified Block Diagram



Front Panel Layout

Rear Panel Layout