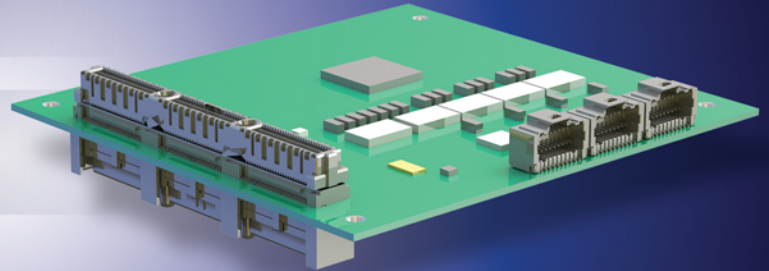


PCIG210

PCIe 8 Optically Isolated Serial Port Card



Power and Flexibility

The Orion PCIG210 is a 4 or 8 channel optically isolated serial card ideally suited for a variety of applications.

The card supports all three protocols RS-232/422 and RS-485. The serial channels are parallel in nature and controlled using a high-performance quad or octal PCIe express UART.

Two separate PCIe inputs are switched using a PCIe multiplexer allowing the G210 to be stacked up or down in the PCIe104 stack.

The PCIG210 card is available in multiple levels of ruggedization, from commercial air cooled to extended temperature.

Features

- 4 or 8 Optically Isolated 16550 compatible Serial Ports
- 1000Vrms of Isolation
- RS-232/422/485 capabilities selectable statically or dynamically
- x1 PCIe Gen 2 Compliant Input
- PCIe/104 form factor
- RS-485 Full or Half Duplex supported
- 256 byte TX and Rx FIFO
- 8 serial channels
- RS-232 data rate up to 400 Kbps
- RS-485 data rate up to 20 Mbps (slew rate limited 460 Kbps)



Hardware Specifications

Serial Channels

- 8x serial channels optically isolated

PCIe

- Two PCIe lanes controlled by Mux

Physical/ Electrical/ Environmental

- Supply voltage: +5V + 3.3V +/- 5%
- Typical power consumption: 546mA (3.3V), 139mA (5V) 3.5W (Total)

Environmental

PCIG210

Temperature	Operating: -40 to +85°C	Storage: -50°C to +100°C
Humidity	Operating: 5% to 95%, non-condensing	Storage: 5% to 95%, non-condensing

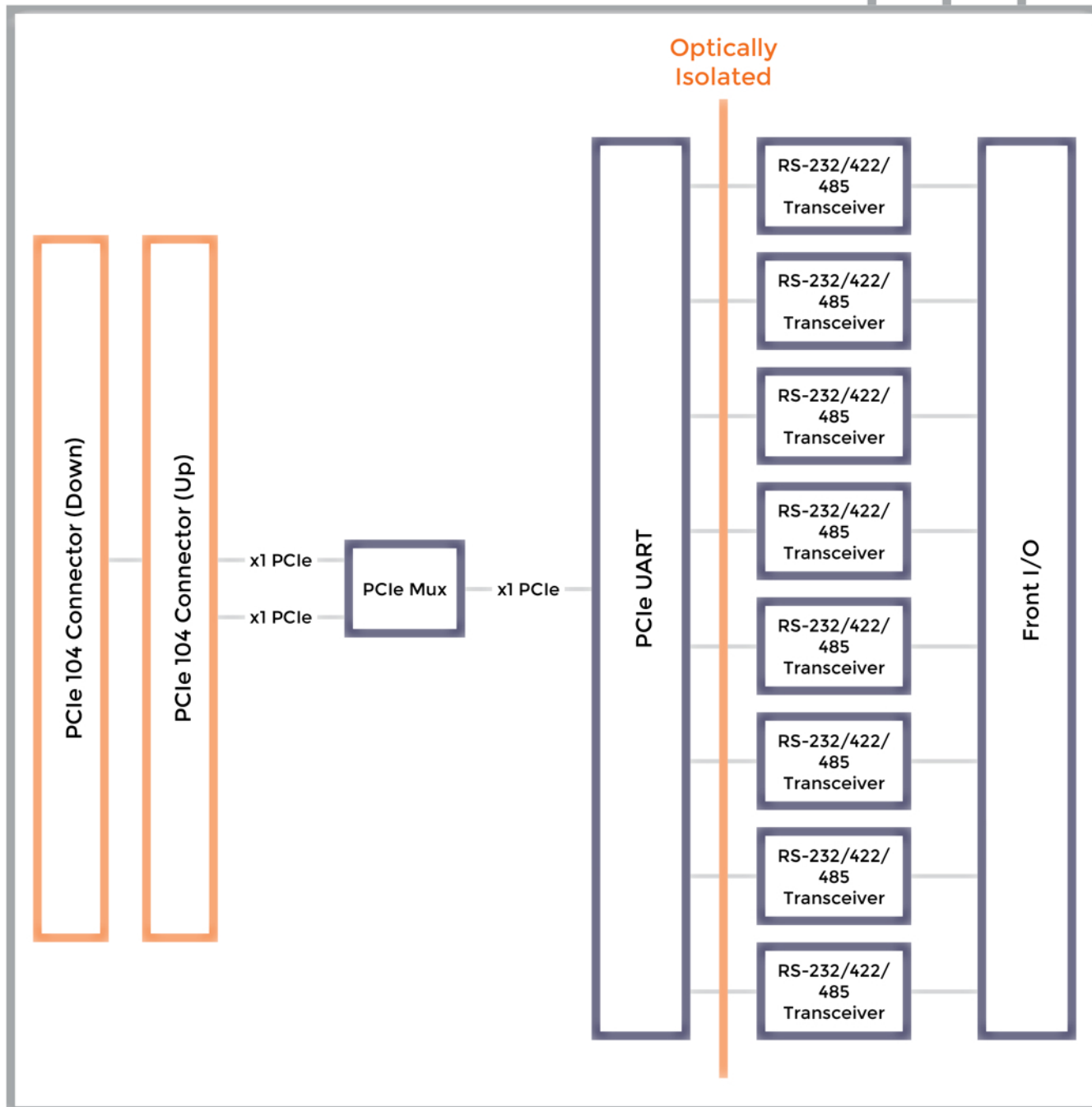
Orion has successfully generated products utilizing an extensive assortment of microprocessors since 1990. Our single board computer product offering includes both custom and standard form factors such as VPX, VME, Compact PCI and PMC. The majority of our products are offered in five ruggedization levels from standard commercial to rugged, extended temperature with conduction cooling. At Orion, we put the customer at the center of our business. We strive to provide the highest quality of products backed by our exceptional service and support.

Whether it's a small quantity, one-time requirement or a high volume product for years to come, we would like to be your partner in embedded solutions.



Block Diagram

PCIG210



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