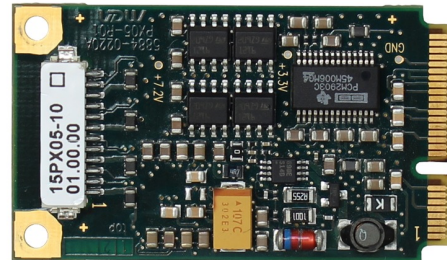


PX5

USB HID to Stereo Audio Interface PCI Express Mini Card

- » *PCI Express Mini Card form factor*
- » *USB interface for maximum compatibility*
- » *HID interface to operating system*
- » *1 stereo input and 1 stereo output*
- » *Differential line inputs and outputs*
- » *Designed for cable lengths of up to 150 m*
- » *-40°C to +85°C*



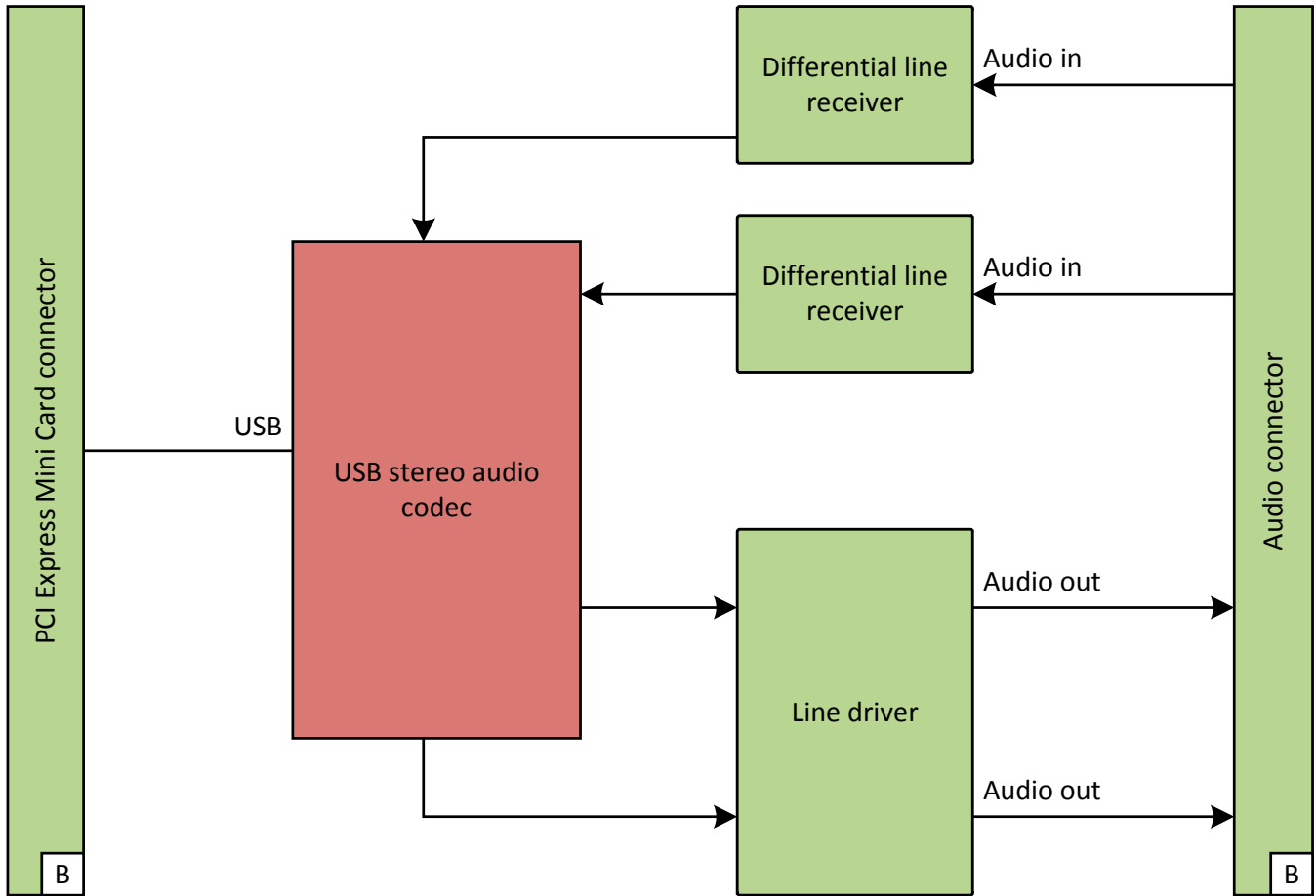
Analog Audio Interface

The PX5 is a PCI Express Mini Card providing an industry-grade USB HID to analog audio interface. It supports one differential stereo audio IN and one differential stereo audio OUT channel at line level.

Rugged Design for Rail and Aerospace

Thanks to its standardized form factor the PX5 can be used as an audio extension for CompactPCI and CompactPCI Serial systems as well as box and panel PCs. Its rugged and compact design makes it especially suitable for the rail and aerospace markets, for example for ELA systems, in-flight and rolling stock entertainment systems, cockpit-to-passenger communication in planes, inter-phone or intercom systems.

B Onboard connector
Options



Audio

- Analog signal configuration
 - 1 stereo audio IN
 - 1 stereo audio OUT
- Input port line drivers: differential line in
- Output port line drivers: differential line out
- Input signal-to-noise ratio
 - 80 dB
- Input dynamic range
 - 80 dB
- Output signal-to-noise ratio
 - 80 dB
- Output dynamic range
 - 80 dB

Product Standard

- PCI Express Mini Card: Full-Mini; USB 2.0

Electrical Specifications

- Supply voltage
 - Module is powered through PCI Express Mini Card interface only (3.3 V)
- Output voltage
 - 2 Vrms max. with 150 Ohm resistive load
- Input impedance
 - 24 kOhm
- Output impedance
 - 100 Ohm max.
- Cable length
 - 150 m max.
- Power consumption
 - 3 W max.

Mechanical Specifications

- Dimensions: 30 mm x 50.95 mm x 5 mm (PCI Express Full-Mini Card)
- Weight: 8 g (PX5 only); 15 g (PX5 with cable)

Environmental Specifications

- Temperature range (operation):
 - -40°C to +85°C, compliant with EN 50155, class T1, T2, T3 or TX
- Temperature range (storage): -40°C to +85°C
- Cooling concept
 - Air-cooled, 1.0 m/s min.
- Relative humidity (operation): max. 95% non-condensing (EN 50155/EN 60068-2-30)
- Relative humidity (storage): max. 95% non-condensing (EN 50155/EN 60068-2-30)
- Altitude: -300 m to +3000 m
- Shock: EN 50155 (12.2.11) / EN 61373 category 1 class B body mounted
- Vibration: EN 50155 (12.2.11) / EN 61373 category 1 class B body mounted

Reliability

- MTBF: 500 000 h @ 40°C according to IEC/TR 62380 (RDF 2000)

Safety

- Flammability (PCBs)
 - UL 94 V-0

EMC

- EN 50121-3-2 (table 4) (EMC in rolling stock)
- EN 61000-4-2/EN 50121-3-2 (table 9) (ESD)
- EN 61000-4-3/EN 50121-3-2 (table 9) (electromagnetic field immunity)
- EN 61000-4-4/EN 50121-3-2 (table 8) (burst)
- EN 61000-4-6/EN 50121-3-2 (table 7) (immunity to conducted disturbances)

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