



TECHNICAL SPECIFICATIONS

FEATURES	FUNCTIONS
CAN 2.0 Trceiver	Microchip MCP2558FD CAN FD Trceiver
Protocols	CAN 2.0 A/B/FD with CAN232-extended interface
Bit Rates	<ul style="list-style-type: none"> A/B: 10 Kbit/s to 1 Mbit/s FD: 250 Kbit/s to 10 Mbit/s
Timestamp Resolution	1us (or 1ms)
Operating Temperature	-40C to 85C Humidity 5% to 95%, Non-condensing
Power	ADLCAN-2.0: 3.3VDC; 0.25W ADLCAN-2.0-ISO: 3.3VDC; 0.5W
Connectors	I/O: Molex 2023960307 3-pin Pico-Clasp Mating: Molex 5013300300
Operating System	Windows and Linux Compatible
Mechanical	Size 30mm x 50.95mm Weight = 5.4 grams; -ISO 6.2 grams
ESD Protection	+/- 13KV on all signals per IEC61000
ADLCAN-2.0-ISO Isolation	UL1577: 5000V rms for 1 minute IPC-2218: Port-to-PC 1500V peak; Port-to-Port 500V peak
Storage Temperature	-65C to 150C

OVERVIEW

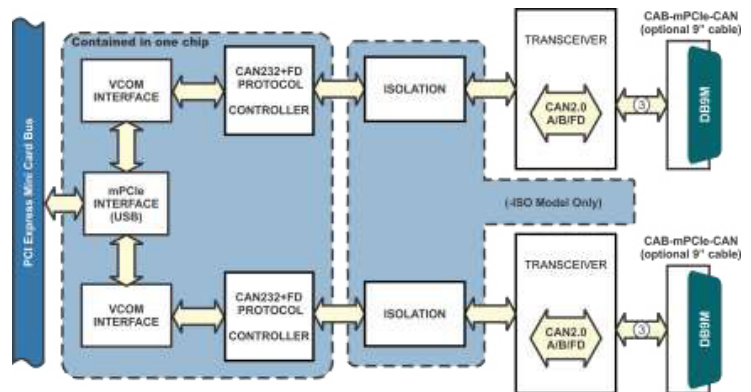
- CAN 2.0 compliant with specification CAN 2.0 A/B and FD
- Microchip MCP2558FD CAN FD Trceiver
- CAN FD bitrate up to 10 Mbit/s
- CAN bitrate up to 1 Mbit/s
- Error reporting for CAN messages
- Isolated Version: 1500V Isolation I/O-to-Computer per IPC-22B on all signals
- Operating Temperature = -40C to 85C

DESCRIPTION

The ADLCAN-2.0 mPCIe features two CAN ports with support for CAN2.0 A/B and FD operations including data rates up to 10Mbps and timestamps with 1µs (or 1ms) resolution.

The ADLCAN-2.0 ports can be controlled using a simple ASCII command/response interface using a superset of the popular CAN232 standard (extended to support CAN FD requirements) The ADLCAN-2.0 enumerates as a pair of standard serial COM/ttyS devices in all operating systems. Commands can be transmitted at any baud rate, 8N1, using the CAN232+FD instruction set.

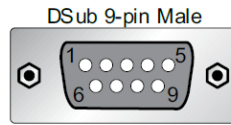
Note: The ADLCAN-2.0 requires the USB 2.0 from the PCI Express Mini Card interface. If two USB serial ports are not instantly enumerated when the card is installed please refer to your motherboard manual to ensure the USB signals are present and enabled.





CONNECTOR PINOUTS

Pin	Signal Names	Signal Descriptions
1	CAN_L	CAN Data Low
2	CAN_H	CAN Data High
3	GND	Ground



Male Pin	Signal Names	Signal Descriptions
1	nc	no connect
2	CAN_L	CAN Data
3	GND	Ground
4	Nc	no connect
5	Nc	no connect
6	Nc	no connect
7	CAN_H	CAN Data
8	nc	no connect
9	nc	no connect

ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLCAN-2.0	299857-1	2-Channel CAN 2.0 mPCIe Module
ADLCAN-2.0-ISO	299857-3	2-Channel CAN 2.0 mPCIe Module with Isolation
ADLCAN-2.0-CAB	299857-2	9" ADLCAN DB9 Cable
Conformal Coating	807720	Conformal Coating with Acrylic Humiseal 1B31