

## Overview

XJComms is a differential serial communications test card that allows you to extend the coverage that you can achieve using an XJIO Board.

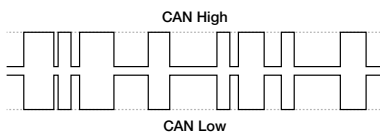
You can test RS485 and RS422 interfaces, common to many designs, as well as CAN, LIN and FlexRay which are all regularly used in the automotive sector.

## Digital Interface

The 20-way IDC header allows you to control and monitor each of the protocol transceivers. It is pin-compatible with the XJIO Board but can also be directly connected to an accessible JTAG enabled I/O connector on the UUT.

## CAN Bus

The CAN (Control Area Network) serial bus was originally developed for use in automobiles, but CAN has found its way into other applications within modern vehicles, such as Body, Safety and Powertrain. It is also used in Avionics for cabin systems and instrument control panels (Airbus A380).



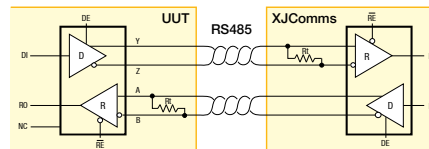
## Test Control

Signals can be driven to or from the UUT to verify that both digital and protocol signals are correctly connected. Tests are implemented using standard XJEase scripts that are supplied with the card.

*Demonstration XJEase scripts available.*

## RS485/RS422 Bus

The RS485 standard specifies differential data transmission over a terminated twisted pair. RS485 is popular for inexpensive local networks, multidrop communication links and long haul data transfer. The use of a balanced line means RS485 has excellent noise rejection and is ideal for industrial and commercial applications.



## Key Benefits

- Confirmation of signal integrity for common interface standards
- Increases UUT test coverage with additional interface connectivity
- Easy integration into XJEase
- Multiple boards can be used in the same project

## Features

- Differential communications test card
- RS485/RS422, CAN, LIN, FlexRay



## FlexRay™ Bus

FlexRay™ is a serial, bus system for real-time control applications and is designed for the future requirements of in vehicle networks. It has now migrated into aviation industry.

## LIN Bus

By allowing a basic serial network connection between actuators, sensors or switches and an ECU, the LIN (Local Interconnect Network) bus has tremendously reduced the design efforts and costs for the car manufacturers. It is thus used in a fast growing number of applications, mainly for low speed networking in Body and Interior applications.

*Note: This board does not facilitate full speed communication using standard bus protocols, but offers signal integrity connection checks using the bus specific interface signals.*

