

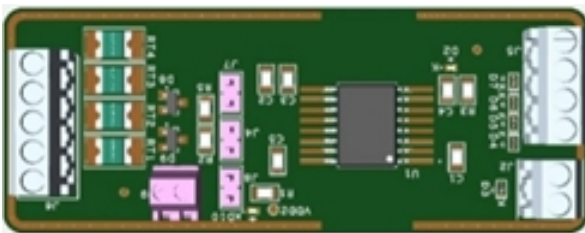
“ISOLATED RS485/422 TRANSCEIVER EVB”



is meant for evaluating IL4xxx-Series Transceivers (IL4822 / IL4622 / IL4685). A two-layer PCB design with on board system level ESD, Transient voltage suppression and over current protection components on the RS485 interface lines, enables customers to use this board readily in an Industrial environment. Based on the transceiver IC used, the board can either support half duplex or full duplex RS485 communication. The input side of the on-board transceiver IC is powered from a 3.3V DC and hence can be interfaced with an external 3.3V microcontroller without need for any voltage level translation.

Application

- Factory automation
- Industrial control networks
- Medical instruments



ISOLATED RS485/422 TRANSCEIVER EVB

Operating Voltage of 3.3 V, 1A

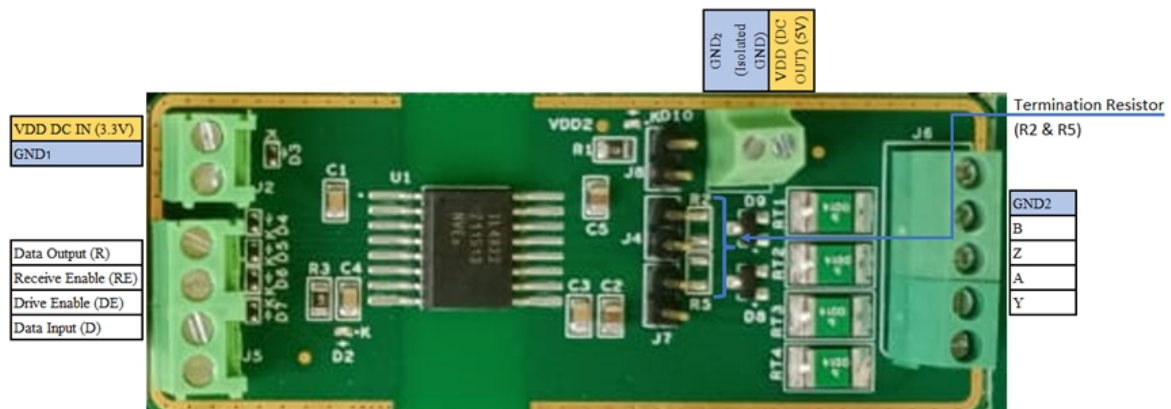
IC comes with integrated ¼ watt DC-DC convertor to power the RS485 driver section of IC

2500 VRMS isolation voltage. Supports 1/5 Unit Load; 160 node fanout.

IC has Overcurrent and thermal shutdown protection built-in; Operating temperature: -40 °C to 85 °C.

The IL4x22 is fully PROFIBUS compliant.

Pin Out Diagram



Notes:

- + R2 & R5 (120E) are the Termination Resistor components that can be mounted if necessary.
- + GND1 & GND2 are the Input & Output (Isolated Ground) power supply ground pins respectively.
- + VDD (DC IN) is DC-DC convertor input voltage (3.3 V nominal). VDD (DC OUT) is DC-DC convertor output (5 V); internally powers transceiver functions.

Benefits

- + On board system level ESD protection for logic data interface lines.
- + Onboard Transient Voltage Suppressor (TVS) & overcurrent protection (PTC)
- + On board optional RS485 bus termination resistor

For more details: enquiry@parrytech.net

Product Ordering Guide

Part number : PT485EVB-NV00XV0

About Parry Technology

Product Engineering/System integration services:

Our engineering services ranges from early engagement with customers to understand the system needs, convert the needs into requirements, finalize on the right technology implementation, circuit design, simulations, PCB development & testing, characterization, final qualifications, documentations at all stages and assistance on the product manufacturing and deployment.

End-to-End Solution for IoT Deployments
IoT Modules, Platform
Cloud Solution

Estore:

Ready to use subsystem modules/products for you to quickly test, develop Internet of Things (IoT) applications.