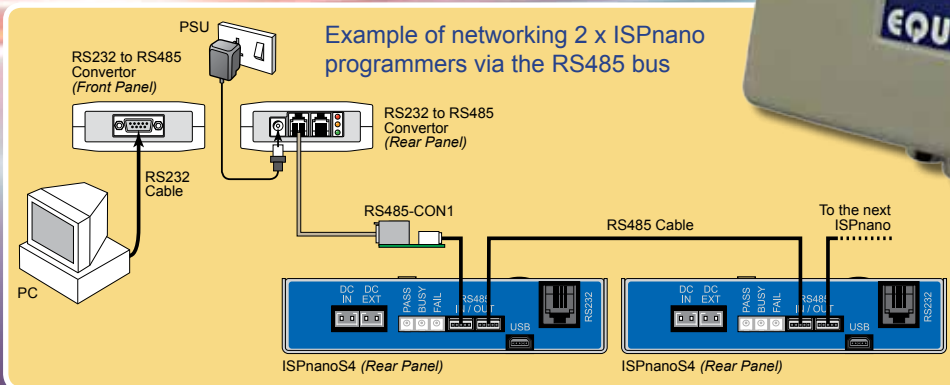


RS485-C2

Isolated RS232 to RS485 Converter



The **RS232 to RS485 Converter** module converts RS232 levels from a PC COM port to RS485 levels suitable for interfacing with the Equinox **ISPnano, PPM3-MK2 and PPM4-MK1 Production ISP programmers**. The module provides an optical isolation barrier between the PC COM port and the RS485 bus which serves to protect the PC from ESD damage.

The **RS485 Converter** is primarily designed to allow networking of 2 or more Programmer Modules from one PC. This is achieved by daisy chaining programmers on the RS485 bus.

Typical Applications:

- Allows all Equinox programmers which feature an RS485 port e.g. **PPM3-MK2 / PPM4-MK1** and ISPnano programmer range to be networked together via RS485
- Controlling of any other remote RS485 device in either '4-wire + 0 Volt' or '2-wire + 0 Volt' mode
- Any RS232 / RS485 application where a 'Ground loop' is preventing the communications from operating correctly.



RS232 → RS485 / RS422

OPTO-ISOLATION

ESD PROTECTED

RS485 4-WIRE + 0V

RS485 2-WIRE + 0V



The Embedded Solutions Company

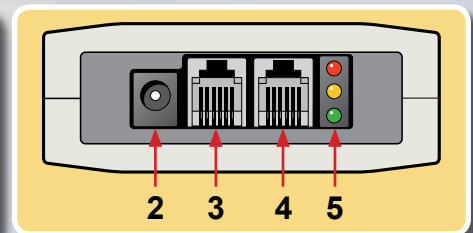
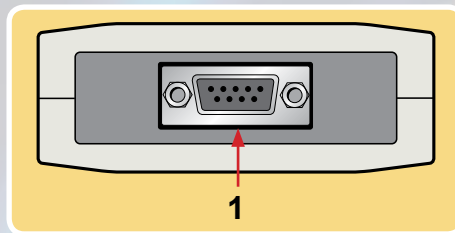
RS485-C2

Isolated RS232 to RS485 Converter

Features:

- Converts RS232 communications signals from a PC to RS485 signals
- Opto-isolated converter isolates the RS232 bus from the RS485 bus (not suitable for mains isolation!)
- Designed to prevent earth loop problems between the PC and programmer(s)
- Supports both '4-wire + 0 Volt' and '2-wire + 0 Volt' mode RS485 communications modes
- RS485 Transmitter can be either permanently enabled or PC controlled (jumper link selectable)
- Dual RS485 output connectors
- Supports RS232 operation up to 115 kBaud
- Supports RS485 operation up to 230,400 kBaud (115 kBaud is recommended for use with Equinox programmers)
- Traffic-light LED Status indicators to show RS485 transmission and reception status
- Powered by external 9V power supply
- ESD protected RS232 and RS485 ports
- Designed to work with all Equinox programmers which feature an RS485 port e.g. PPM3-MK2 / PPM4-MK1 and ISPnano programmer range
- CE compliant product

RS232 to RS485 Converter End Panels



Number	Description	Type
1	RS232 Connector	DB9 Female
2	Power Connector	2.5mm Power Connector
3	RS485 Connector	RJ11
4	RS485 Connector	RJ11
5	Traffic Light Status LED's	3-way LED pack

Equinox Programmer compatibility

Product	Programmer channels
ISPnano Series 3 Programmer	1 - 32
ISPnano Series 4 Programmer	1 - 32
ISPnano-MUX Programmer	1 - 32
PPM3-MK2 Programmer	1 - 16
PPM4-MK1 Programmer	1 - 32

RS485 accessories and cables

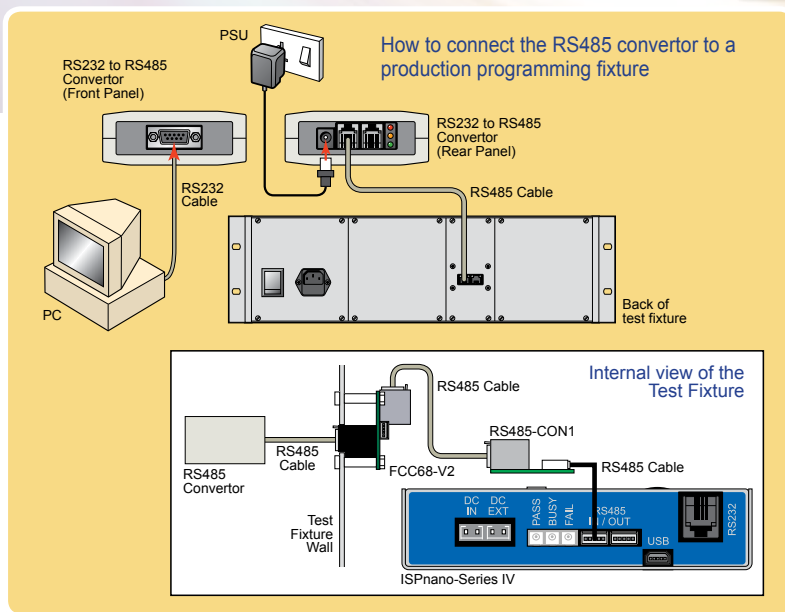


EQ-FCC68-V2
Dual Port - RS485 Panel
Mounting Connector Module
for PPM3, PPM4 and ISPnano



EQ-RS485-CON1-V1.0
Single Port - RS485 Panel
Mounting Connector Module
for PPM3, PPM4 and ISPnano

The Single Port - RS485
Panel Mounting Connector
Module shown
connecting the RS485
Interconnect Cable and a
standard RS485 cable



CAB-RS485-2
RS485 Cable



CAB-RS485-ISPnano-1
RS485 Interconnect
Cable for ISPnano
programmers

Warning

Under no circumstances should this Converter Module be used to isolate the PC from 110 or 240V AC voltages. This converter is designed to limit the damage from ESD discharges and is not rated for mains voltage protection.

Ordering information:

RS485-C2(UN) - Isolated RS232 to RS485 Converter (Universal Power Supply)

Associated Products

- CAB-RS485-2 - RS485 Cable
- CAB-RS485-ISPnano-1 - RS485 Interconnect Cable for ISPnano programmers
- EQ-RS485-CON1-V1.0 - Single Port - RS485 Panel Mounting Connector Module for PPM3, PPM4 and ISPnano
- EQ-FCC68-V2 - Dual Port - RS485 Panel Mounting Connector Module for PPM3, PPM4 and ISPnano

Equinox Technologies reserves the right to change any information contained within this leaflet without prior notice. E&OE

**EQUINOX**
TECHNOLOGIES
EQUINOX TECHNOLOGIES UK LIMITED
The Embedded Solutions Company