

Translink Controller Installation Manual

V1.0



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2 Warning



Both the Ethernet and C-Bus connections on this device are made via RJ45 sockets. Ensure you make the correct connection to each socket. Incorrect connection will most likely cause irreparable damage that is not covered under warranty.

3 Overview

The Translink Controller is hardware device designed to provide 2 way communications between a Clipsal C-Bus network and a Translink User Application. The Translink User Application typically consists of software running on a hand held device such as an iPad or iPhone and is connected to the Translink Controller by Ethernet.

The Translink Controller acts as a gateway and translator between the 2 systems passing information back and forth regarding the changes in state of group addresses as well as allowing the state of group addresses to be controlled.

4 Packaging

The Translink Controller is supplied with the following;

- Translink Controller
- 7.5VDC Power supply
- 1m Pink C-Bus cable
- 2m Blue Ethernet cable
- Translink Configurator Software on CD
- This Installation Manual

5 Physical Installation

The Translink Controller is housed in a 4 unit wide DIN rail case, which is designed to be installed into a standard switchboard style enclosure.



DO NOT INSTALL THE TRANSLINK CONTROLLER INTO AN ENCLOSURE THAT CONTAINS VOLTAGES GREATER THAN 50V

The enclosure should not be the same enclosure as those used to house mains supply voltage equipment such as C-Bus Dimmers, Relays or Circuit Breakers.

6 Wiring

6.1 Power

The Translink Controller is powered by the supplied 7.5VDC Plug Pack and is connected via screw terminals. Care should be taken when connecting to the Translink Controller to ensure both the correct connector and correct polarity is used.

6.2 Ethernet

The Ethernet connector on the Translink Controller should be connected to a network switch or hub using the supplied blue Cat5e patch cable (if this cable is not long enough, a substitute may be used).

It is also possible to connect the Translink Controller directly to a PC via a crossover cable (not supplied) for the purpose of configuring the Translink Controller via the Translink Configurator software.

When properly connected the LED's on the connector will indicate the connection details. The LED's are numbered when looking directly into the socket.

1 Left LED (Link)		2 Right LED (Activity)	
Colour	Meaning	Colour	Meaning
Off	No Link	Off	No Activity
Amber	10 Mbps	Amber	Half Duplex
Green	100 Mbps	Green	Full Duplex

6.3 C-Bus

Connection to the C-Bus network can be made using either the RJ45 connector or screw terminals. All the C-Bus connectors are effectively wired in parallel, so any combination can be used to connect in the most appropriate way. Note: only one logical C-Bus network can be connected.

If connecting via one of the RJ45 connectors, use the supplied 1m pink approved patch cable. This cable is certified for use in mains voltage enclosures, so it can be connected to other C-Bus units such as Dimmers or Relays.

6.3.1 C-Bus cable colour coding

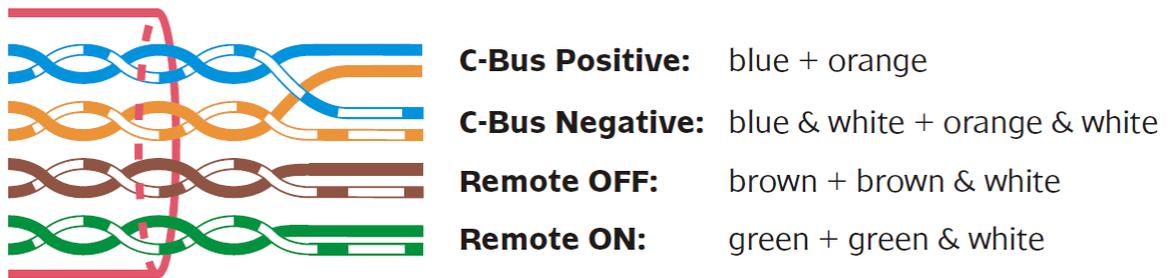


Figure 1 C-Bus Colour Coding

RJ45 Pin	C-Bus Connection	Colour
1	Remote On	Green/White
2	Remote On	Green
3	C-Bus Negative (-)	Orange/White
4	C-Bus Positive (+)	Blue
5	C-Bus Negative (-)	Blue/White
6	C-Bus Positive (+)	Orange
7	Remote Off	Brown/White
8	Remote Off	Brown

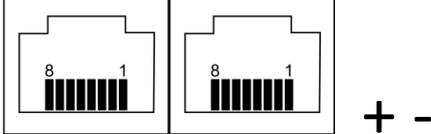




Figure 2 C-Bus Connections

6.4 Wiring diagram

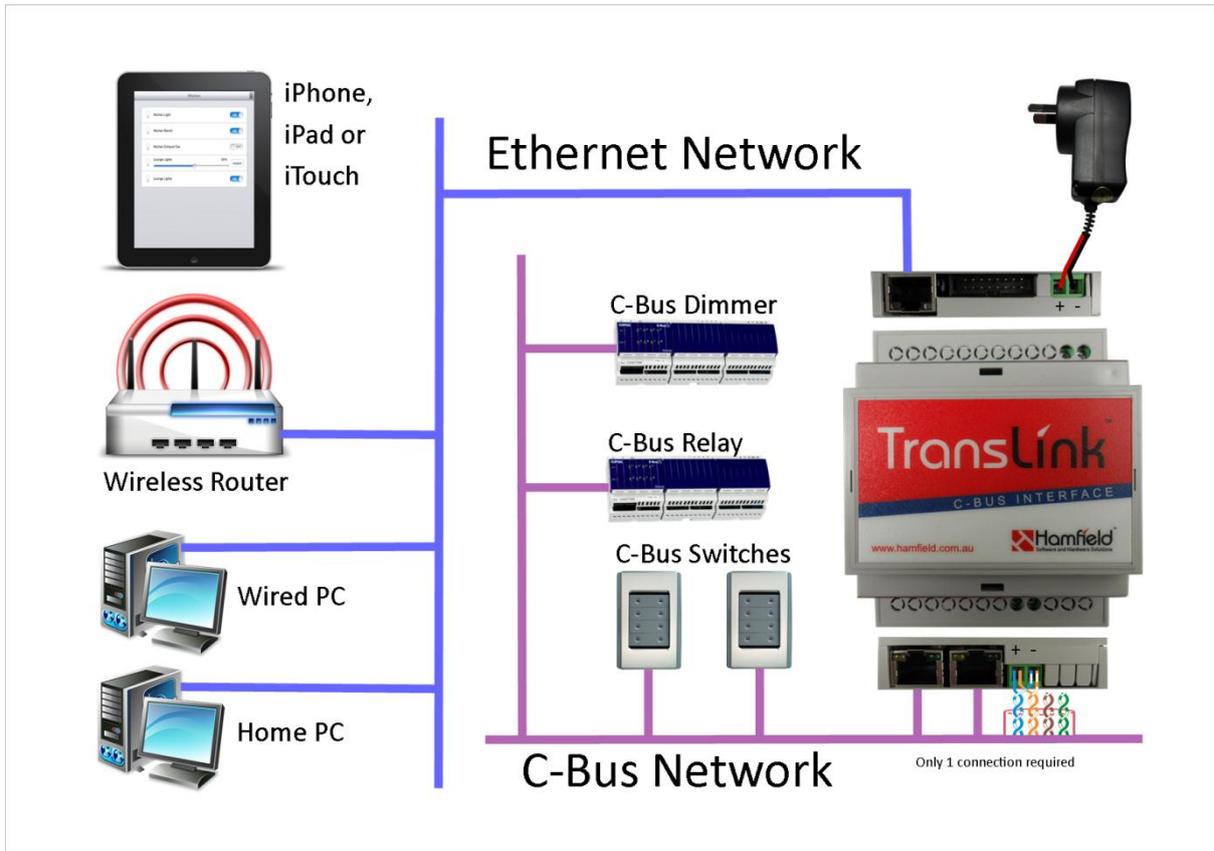


Figure 3 Translink Controller Interconnection Diagram

6.5 C-Bus RJ45 LED Meanings

The two C-Bus RJ45 connectors have inbuilt LED's that are used to indicate status and general health of the whole Translink Controller, they are not specifically for the C-Bus network.

The LED's are numbered when looking directly into the C-Bus socket.

State	1 LED Amber	2 LED Green	3 LED Amber	4 LED Green
Off	No Ethernet Activity	No C-Bus Activity	Invalid	Controller Initialising
On	Invalid	Invalid	Controller Not Executing	Controller Initialising
Random Flashing	Ethernet Activity	C-Bus Activity	Invalid	Invalid
Fast Flash	Invalid	Invalid	Controller Executing	Invalid
Slow Flash	Invalid	Invalid	Invalid	Controller Initialised

6.6 Logic Engine

The Translink Controller has an external connector marked Logic Engine. This connector is primarily reserved for future enhancements to the Translink family of products.

However it is also has 2 other uses.

1. It is used to connect the optional Boot loader Programming & Debug adapter. Use of this adapter is described in the Translink Configurator documentation.
2. It can be used to connect the “Configuration Lock” which will prevent users of the Translink User apps being able to access the page setup options in those applications.

7 Programming

7.1 C-Bus

The Translink controller contains circuitry that makes it appear on the C-Bus network as a C-Bus interface Device. Because it is considered a C-Bus unit, it must be programmed with a “Unit Address” just like any other C-Bus device.

To set the Translink Controller’s C-Bus unit address, use the Clipsal Toolkit application.

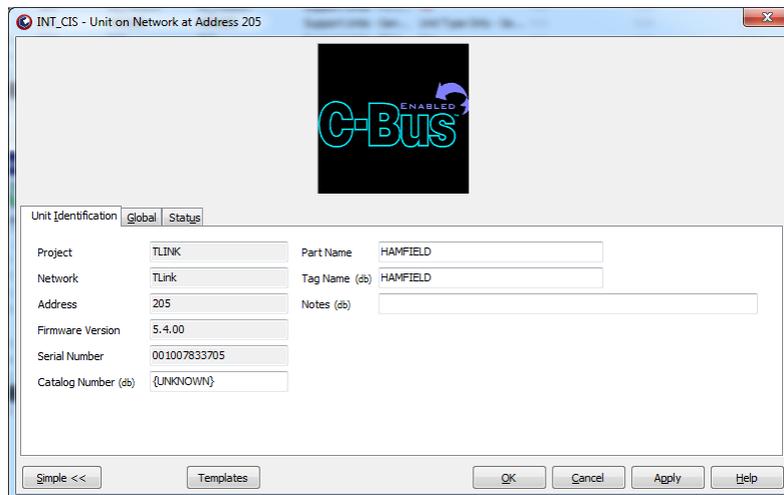


Figure 4 C-Bus Toolkit Configuration

7.2 Translink Controller

The Translink Controller must also be setup and programmed before it will operate correctly.

To setup the Translink Controller for each specific installation, use the Translink Configurator application included on the Provided CD.

Out of the box the Translink Controller will obtain its IP address via DHCP, AutoIP or BOOTP, to enable initial communication. It is strongly recommended that the default dynamic IP address configuration be changed to a static configuration using the Translink Configurator application.

8 Warranty Statement

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure

1. The warrantor is Hamfield ABN 26 952 786 558 PO Box 227 The Basin, Victoria, Australia, 3154
2. Hamfield warrants that the product is free from defects in materials and workmanship for a period of 12 months, effective from the date of purchase.
3. Hamfield reserves the right, at its discretion either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.
4. This warrantee is expressly subject to the Hamfield product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions.
5. All costs of a claim (excluding return to Hamfield shipping) shall be met by Hamfield, however, should the product that is the subject of the claim be found to be in good working order, all such costs shall be met by the claimant.
6. When making a claim the claimant shall contact Hamfield by email (warrantee@hamfield.com.au) to obtain a "Return Merchandise Authorization (RMA) prior to the return of the goods. This RMA shall be fully completed and included with the returned product. The product shall be returned, securely packed to prevent further damage to the product.