

## Introduction

CC0232 modules are used to convert Dedicated Micros' c-bus protocol to RS-232 and back again. They are designed for transmission of c-bus commands over different transmission media such as wireless, microwave, and fibre-optic.

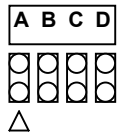
## Configuration

Before installing, configure the bridge modules for the transmission media.

### Link settings

The baud rate of the bridge modules has to match that of the transmission media. If it is not possible to change the transmission media's baud rate 19200 the internal link settings in the CC0232 will need to be changed as shown in the diagram below:

J3



A	B	C	D	Baud Rate
0	0	0	0	Not Used
1	0	0	0	Not Used
0	1	0	0	Not Used
1	1	0	0	Not Used
0	0	1	0	9600
1	0	1	0	19200
0	1	1	0	38400
1	1	1	0	19200*

\* Default Baud rate.

**Note:** It is important that both modules and the transmission media have the same baud rate.

## Installation

Two modules are required for an installation, one module to convert c-bus to RS-232 and one at the other end of the transmission media to convert RS-232 back to c-bus. If a remote CC0232 is being used without a multiplexer, a c-bus Junction Box (JBX) and Keyboard Power Supply (KPSU) is required to power the remote module.

### Wiring

An RS-232 cable is required to connect the CC0232 to the transmission unit. The table below shows the connections between the 25-way D-type on the bridge module and a 25-way or 9-way D-type on the transmission unit.

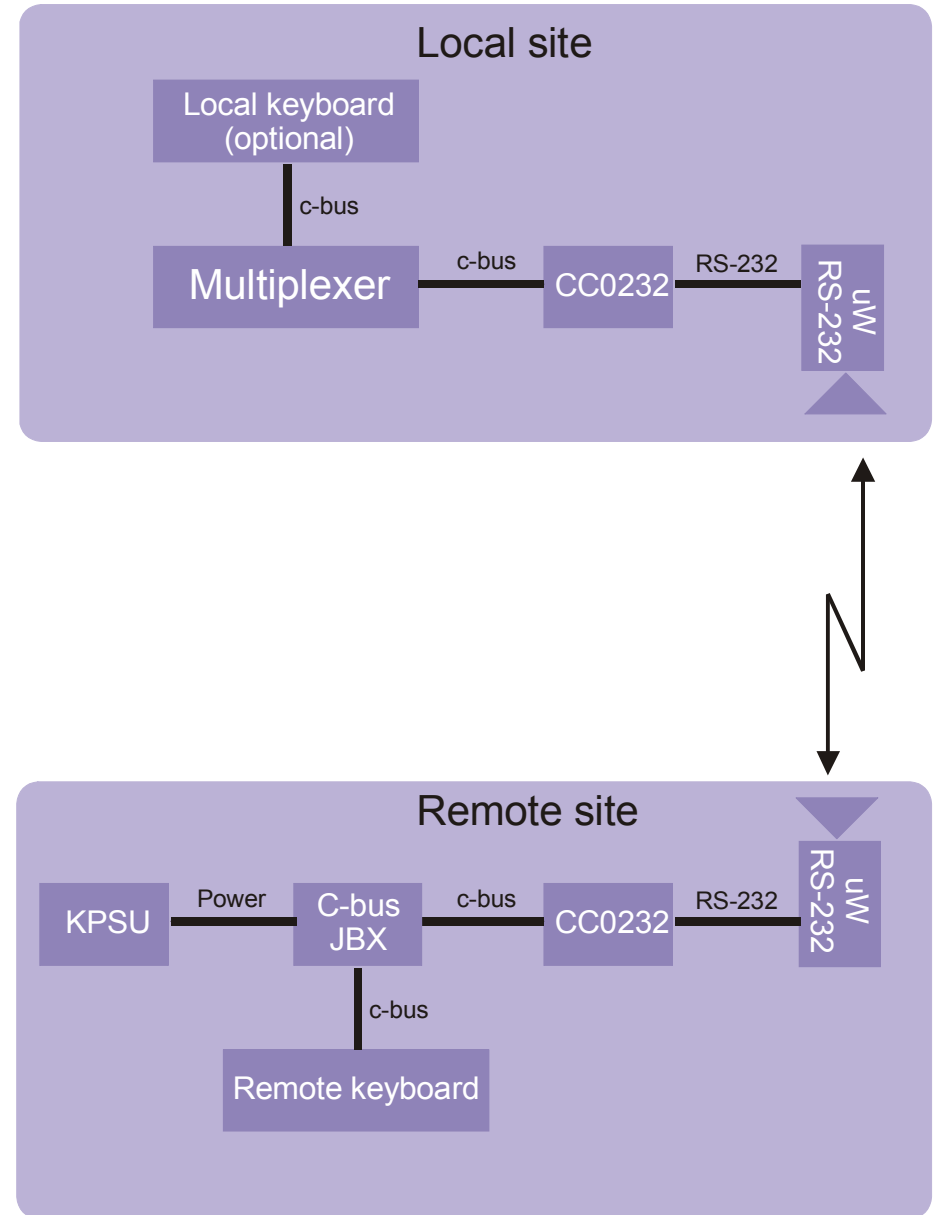
CC0232 Bridge Module	Transmission unit	
	25-way D-type	9-way D-type
2 – Tx	3 – Rx	2 – Tx
3 – Rx	2 – Tx	3 – Rx
7 – GND	7 – GND	5 – GND
5 + 4 - Link together	-	-

### Data format

Format	Setting
Data bits	8
Parity	None
Stop bits	1
Flow control	None

## Typical installation

Remote control of a DM multiplexer over a microwave link:



**CC0232**  
**c-bus to RS-232 converter**

MI-I-CC232/E1-0

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